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## OM nucleic - nucleic search, using sw model

Run on: December 28, 2005, 22:23:23 ; Search time 353 Seconds  
(without alignments)  
8822.346 Million cell updates/sec

Title: US-10-001-227-3  
Perfect score: 1752  
Sequence: 1 atgcacatccacagtggtgc.....ctcgagaagcagagcattc 1752

Scoring table: IDENTITY\_NNC  
Gapop 10.0 , Gapext 1.0

Searched: 1303057 seqs, 888780828 residues

Total number of hits satisfying chosen parameters: 2606114

Minimum DB seq length: 0  
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

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Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

## SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	957.8	54.7	2456	US-09-999-833A-253	Sequence 253, App
2	957.8	54.7	2456	US-10-020-445A-253	Sequence 253, App
3	427.2	24.4	1717	US-09-595-682B-20	Sequence 20, Appl
4	424	24.4	1701	US-09-264-737-3	Sequence 3, Appl
5	319.2	18.2	1680	US-10-019-219-6	Sequence 6, Appl
6	319.2	18.2	2117	US-09-949-016-3799	Sequence 3799, Ap
7	319.2	18.2	2169	US-09-949-016-555	Sequence 555, App
8	319.2	18.2	2191	US-09-595-682B-27	Sequence 27, Appl
9	272.8	15.6	1746	US-10-023-515-3	Sequence 3, Appl
10	272.8	15.6	2158	US-10-023-515-1	Sequence 1, Appl
11	260.6	14.9	2092	US-10-104-047-249	Sequence 249, App
12	243.4	13.9	1453	US-09-799-451-562	Sequence 562, App
13	168.6	9.6	521	US-10-019-219-3	Sequence 3, Appl
14	148.2	8.5	1725	US-09-810-861B-5	Sequence 5, Appl
15	148.2	8.5	1845	US-07-732-962A-1	Sequence 1, Appl
16	148.2	8.5	1845	PCT-US92-06106-1	Sequence 1, Appl
17	148.2	8.5	2158	US-09-949-016-1192	Sequence 1192, Ap
18	148.2	8.5	2158	US-09-949-016-1193	Sequence 1193, Ap
19	148.2	8.5	2256	US-08-318-826A-5	Sequence 5, Appl
20	148.2	8.5	2256	US-08-370-156-1	Sequence 1, Appl
21	148.2	8.5	2256	US-08-814-095-1	Sequence 1, Appl
22	148.2	8.5	3016	US-08-318-826A-7	Sequence 7, Appl
23	148.2	8.5	3016	US-08-370-156-5	Sequence 5, Appl
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25	148.2	8.5	3096	US-08-318-826A-6	Sequence 6, Appl
26	148.2	8.5	3096	US-08-370-156-3	Sequence 3, Appl
27	148.2	8.5	3096	US-08-814-095-3	Sequence 3, Appl
28	148.2	8.5	5767	US-09-810-861B-3	Sequence 3, Appl
29	148.2	8.5	14446	US-09-810-861B-4	Sequence 4, Appl
30	137.2	7.8	9885	US-09-949-016-12934	Sequence 12934, A
31	137.2	7.8	9885	US-09-949-016-12935	Sequence 12935, A
32	137.2	7.8	35060	US-08-814-095-7	Sequence 7, Appl
33	129.8	7.4	10827	US-08-814-095-7	Sequence 12297, A
34	126.4	7.2	3113	US-09-999-833A-374	Sequence 374, App
35	126.4	7.2	3113	US-10-020-445A-374	Sequence 374, App
36	124.4	7.1	2184	US-08-445-050-8	Sequence 8, Appl
37	124.4	7.1	2184	US-08-204-691-8	Sequence 8, Appl
38	124.4	7.1	2375	US-09-949-016-3976	Sequence 3976, Ap
39	124.4	7.1	2428	US-08-445-050-1	Sequence 1, Appl
40	124.4	7.1	2428	US-08-204-691-1	Sequence 1, Appl
41	124.4	7.1	2428	US-09-355-295B-2	Sequence 2, Appl
42	124.4	7.1	2487	US-08-370-223-12	Sequence 12, Appl
43	124.4	7.1	2734	US-09-569-611C-5	Sequence 5, Appl
44	124.4	7.1	2781	US-09-569-611C-6	Sequence 6, Appl
45	124.4	7.1	3018	US-08-347-718B-3	Sequence 3, Appl

## ALIGNMENTS

RESULT 1  
US-09-999-833A-253  
Sequence 253, Application US/09999833A  
Patent No. 6916648  
GENERAL INFORMATION:  
APPLICANT: Ashkenazi, Avi  
APPLICANT: Baker Kevin P.  
APPLICANT: Botstein, David  
APPLICANT: Denoyers, Luc  
APPLICANT: Eaton, Dan  
APPLICANT: Ferrara, Napoleone  
APPLICANT: Filvaroff, Ellen  
APPLICANT: Fong, Sherman  
APPLICANT: Gao, Wei-Qiang  
APPLICANT: Gerber, Hanspeter  
APPLICANT: Gerltsen, Mary E.  
APPLICANT: Goddard, Audrey  
APPLICANT: Godowski, Paul J.  
APPLICANT: Grimaldi, J. Christopher  
APPLICANT: Gurley, Austin L.  
APPLICANT: Hillan, Kenneth J.  
APPLICANT: Kljavin, Ivar J.  
APPLICANT: Kuo, Sophia S.  
APPLICANT: Napier, Mary A.  
APPLICANT: Pan, James  
APPLICANT: Paoni, Nicholas F.  
APPLICANT: Roy, Margaret Ann  
APPLICANT: Shelton, David L.  
APPLICANT: Stewart, Timothy A.  
APPLICANT: Tumas, Daniel  
APPLICANT: Williams, P. Mickey  
APPLICANT: Wood, William I.  
TITLE OR INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
FILE REFERENCE: P2630P1C65  
CURRENT APPLICATION NUMBER: US/09/999,833A  
CURRENT FILING DATE: 2001-10-24  
PRIOR APPLICATION NUMBER: 09/918585  
PRIOR FILING DATE: 2001-07-30  
PRIOR APPLICATION NUMBER: 60/062250  
PRIOR FILING DATE: 1997-10-17  
PRIOR APPLICATION NUMBER: 60/064249  
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PRIOR APPLICATION NUMBER: 60/065311  
PRIOR FILING DATE: 1997-11-13  
PRIOR APPLICATION NUMBER: 60/066364  
PRIOR FILING DATE: 1997-11-21



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 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085704  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match 54.7%; Score 957.8; DB 3; Length 2456;  
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 DB 388 GGTGCTTGGACCCAAAGGCGCTCAAGTGTCAACCAATATGAAACCCCTGCAAGGAAA 447  
 QY 187 CAGATCATGTGGGGAAGACCCATCCAAAGTCTTTTAAAGTCCCTTCTCCAGACT 246  
 DB 448 CAGATCATGTGGGGAAGACCCATCCAAAGTCTTTTAAAGTCCCTTCTCCAGACT 507  
 QY 247 CCTTAAAGTATCTCAAGTTTGAACCTTCAAAACCCCGGAGCCCTGGAAGAAATCAGA 306  
 DB 508 CCTTAAAGTATCTCAAGTTTGAACCTTCAAAACCCCGGAGCCCTGGAAGAAATCAGA 567  
 QY 307 GAGTCTACCACTTACCGGCGCTG----- 328  
 DB 568 GAGTCTACCACTTACCGGCGCTGAGTGTCTGTGCGCAGGCTGAGTGCAGTG 627  
 QY 329 ----- 328  
 DB 628 GCAAGATCTGGGCTCACTGCAACTCGGCTCCCGGGTTGAAGGAGTCTCTGGCTCAG 687  
 QY 329 -----GTTGCTTCAAGAGTCTCTGGGCGCAGTGGCTCGATG 366  
 DB 688 CTTCTGAGTGTCTGGGCTCAAGGCTGCTCAAGGAGTCTGGGCGCAGTGGCTCGATG 747  
 QY 367 TAGCTGACGACGGGGAACGGTCAAGTGTGCTTCAAGGAGCTGTGTACTG 426  
 DB 748 TAGCTGACGACGGGGAACGGTCAAGTGTGCTTCAAGGAGCTGTGTACTG 807  
 QY 427 AACGTGACGACGGGCGCGCGCGCCCGGGGATCCCAAGCTCCAGTGAATGTCGTTTC 486  
 DB 808 AACGTGACGACGGGCGCGCGCGCCCGGGGATCCCAAGCTCCAGTGAATGTCGTTTC 867  
 QY 487 CCGGGAAGCGCTTCACTGTGGGCGCTGCTTCTTGAAGAGGCTCTGAATTGGCGCC 546  
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 QY 547 CGCGAAGAGTGTGCTGTGTTTCTGACGACGAGCTCGGATCTTGGCTTCTGAGC 606  
 DB 928 CGCGAAGAGTGTGCTGTGTTTCTGACGACGAGCTCGGATCTTGGCTTCTGAGC 987  
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 DB 988 ACGGACGACGACGCGCGCGGGAACGCGGGGCTGTGACGACGAGTGGCGGCTCTGGCG 1047  
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 QY 1087 GTTTCATCTGTGCGCTTACCTTCTAGGTGTCAACCACTGGAATTCAATTGCTTGTCT 1146  
 DB 1468 GTTTCATCTGTGCGCTTACCTTCTAGGTGTCAACCACTGGAATTCAATTGCTTGTCT 1527  
 QY 1147 TATATCATGAAGTCCCGCTAAACCGGCAAGGATGAGAAAGAAACATCACTAAGATG 1206  
 DB 1528 TAT----- 1530  
 QY 1207 CTCTGAGTACCCGCACTGTGTAATATCAACCAAGAGAGGTACCACTTGTGTGAG 1266  
 DB 1531 -----TATATCAACCAAGAGAGGTACCACTTGTGTGAG 1566  
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 DB 1687 ACC 1689

RESULT 2  
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 ; Patent No. 6962797  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Baker Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Baton, Dan  
 ; APPLICANT: Ferrara, Napoleon  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Pong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerltsen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gutney, Austin L.  
 ; APPLICANT: Hillan, Kenneth J.  
 ; APPLICANT: Kijavlin, Ivar J.  
 ; APPLICANT: Kuo, Sophia S.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James  
 ; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Shelton, David L.  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; ACIDS Encoding the Same  
 ; FILE REFERENCE: P2630P1C74

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Query Match      54.7%; Score 957.8; DB 3; Length 2456;
Best Local Similarity 85.3%; Pred. No. 1.1e-246;
Matches 1180; Conservative 0; Mismatches 2; Indels 201; Gaps 2;

QY 127 GGTGCTTGGACACCAAGAGGCTCAAGTGTGACCAATATGGAACCTCGAAGGAAA 186
DB 388 GGTGCTTGGACACCAAGAGGCTCAAGTGTGACCAATATGGAACCTCGAAGGAAA 447
QY 187 CAGATGATGTGGGAAAGAACCAACCATCAAGTCTTTTAAAGTCCCTTCTCCAGACT 246
DB 448 CAGATGATGTGGGAAAGAACCAACCATCAAGTCTTTTAAAGTCCCTTCTCCAGACT 507
QY 247 CCTCTAGATCTCTCAGGTTTGACCTCCAGAACCCCGGAGCCCTGGAAAGAAATACA 306
DB 508 CCTCTAGATCTCTCAGGTTTGACCTCCAGAACCCCGGAGCCCTGGAAAGAAATACA 567
QY 307 GATGCTAACCACTTACCCGCTG----- 328
DB 568 GATGCTAACCACTTACCCGCTGATGAGTCTGCTGTGTGCCAGGCTGAGTGAAGTG 627
QY 329 ----- 328
DB 628 GCAAGATCTGGGCTCACTGCAACTCCGCTCCCGGGTTCAAGGAGTCTCTGCTCAG 687
QY 329 ----- 328
DB 688 CCTCTAGATCTCTGAGGCTACAGGTGCTGCAAGAGTCTGAGGCTGAGTCTGAGT 747
QY 367 TACCTGACGACCGCGGAAACGGTACAAAGTGTGGCTTCAAGGAGTCTGTCTACCTG 426
DB 748 TACCTGACGACCGCGGAAACGGTACAAAGTGTGGCTTCAAGGAGTCTGTCTACCTG 807
QY 427 AACGTGACGCGCGGCGCGCGCGCGCGGAGTCCCAAGCTGCGAGTATGATGTCTGTT 486
DB 808 AACGTGACGCGCGGCGCGCGCGCGCGGAGTCCCAAGCTGCGAGTATGATGTCTGTT 867
QY 487 CCGGAGAGCGCTTTCATCTGTGGGCGCTTCTTCTGTAAGAGGCTCTGACTTGGCCG 546
DB 868 CCGGAGAGCGCTTTCATCTGTGGGCGCTTCTTCTGTAAGAGGCTCTGACTTGGCCG 927
QY 547 CGCGAGAAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 606
DB 928 CGCGAGAAAGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGTGT 987
QY 607 ACGGACGACGACGCGCGCGCGGAAAGTGGGAGCTGTGACAGAGATGGCGGCTCTGCG 666
DB 988 ACGGACGACGACGCGCGCGCGGAAAGTGGGAGCTGTGACAGAGATGGCGGCTCTGCG 1047
QY 667 TGGGTGACGAGAAATCTGACAGCTTCCGAGGAGAACCCAGGAAATGTGACCTGTGCG 726
DB 1048 TGGGTGACGAGAAATCTGACAGCTTCCGAGGAGAACCCAGGAAATGTGACCTGTGCG 1107

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QY 727 CAGTCGGCGGGGCCAATGAGCATCTCAAGCATGATGATGTCAACCCCTAGCCTCGGCTTC 786
DB 1108 CAGTCGGCGGGGCCAATGAGCATCTCAAGCATGATGATGTCAACCCCTAGCCTCGGCTTC 1167
QY 787 TTTCATCGGGCCATTTTCCAGAGTGGACCCGGTTATTCAGACTTTTCACTCACTGATAC 846
DB 1168 TTTCATCGGGCCATTTTCCAGAGTGGACCCGGTTATTCAGACTTTTCACTCACTGATAC 1227
QY 847 CCACTGAAAGTGGCCCAAGAAAGTTGGCCACTGCTGTGATGCAACCAACAGACACAG 906
DB 1228 CCACTGAAAGTGGCCCAAGAAAGTTGGCCACTGCTGTGATGCAACCAACAGACACAG 1287
QY 907 ATCTGTGTAACCTGCTGAGGCACTATGAGGACCAAGATGATGCTGTCTCAACAG 966
DB 1288 ATCTGTGTAACCTGCTGAGGCACTATGAGGACCAAGATGATGCTGTCTCAACAG 1347
QY 967 ATGAGATTCTCTCAACTGAACCTTCCAGAGAGACCCGGAAGAGATTATCTGTCCATGAG 1026
DB 1348 ATGAGATTCTCTCAACTGAACCTTCCAGAGAGACCCGGAAGAGATTATCTGTCCATGAG 1407
QY 1027 CCGTGTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1086
DB 1408 CCGTGTGAGATGATGATGATGATGATGATGATGATGATGATGATGATGATGATGAT 1467
QY 1087 GTTTCATCTGTGCTTACCTTCTAGGTGTCAACCACTGGAATTCATTTGCTTTCCT 1146
DB 1468 GTTTCATCTGTGCTTACCTTCTAGGTGTCAACCACTGGAATTCATTTGCTTTCCT 1527
QY 1147 TATATCATGAAGTTCCTCCGCTAAACCGGACAGGATGAGAAAGAAACATCAATGATG 1206
DB 1528 TAT----- 1530
QY 1207 CTCTGAGATACCCGCAACCTGTGTAATATCAACCAAGAGAGTACACTGTGTGTGAG 1266
DB 1531 ----- 1531
QY 1267 GAGTACCTGACATATGTCAATGATGATGATGATGATGATGATGATGATGATGATGAT 1326
DB 1567 GAGTACCTGACATATGTCAATGATGATGATGATGATGATGATGATGATGATGATGAT 1626
QY 1327 ATAGTTCAGATGCCACTTTCGTGTATGCAACTGTGACCTGTCACTTACCGAGAT 1386
DB 1627 ATAGTTCAGATGCCACTTTCGTGTATGCAACTGTGACCTGTCACTTACCGAGAT 1686
QY 1387 GCC 1389
DB 1687 ACC 1689

```

RESULT 3  
 US-09-595-682B-20  
 ; Sequence 20, Application US/09595682B  
 ; Patent No. 6800483  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Danke, Mary K.  
 ; APPLICANT: Potter, Phillip M.  
 ; APPLICANT: Houghton, Peter J.  
 ; TITLE OF INVENTION: Tumors Cells  
 ; TITLE OF INVENTION: Tumors Cells  
 ; FILE REFERENCE: 5J-0005  
 ; CURRENT APPLICATION NUMBER: US/09/595,682B  
 ; PRIOR FILING DATE: 2000-01-16  
 ; PRIOR APPLICATION NUMBER: 60/075,258  
 ; PRIOR FILING DATE: 1998-02-19  
 ; PRIOR APPLICATION NUMBER: PCT/US99/03171  
 ; NUMBER OF SEQ ID NOS: 30  
 ; SOFTWARE: Patentin Ver. 2.0  
 ; SEQ ID NO 20  
 ; LENGTH: 1717  
 ; TYPE: DNA  
 ; ORGANISM: Oryctolagus cuniculus

US-09-595-682B-20

Query Match 24.4%; Score 427.2; DB 3; Length 1717;  
Best Local Similarity 57.1%; Pred. No. 2,3e-104;  
Matches 862; Conservative 0; Mismatches 633; Indels 15; Gaps 4;

QY 208 CCCATCAAGTCTTTTAAAGAGTCCCTTCACAGACCTCTCTAGATATCCCTAGGTTT 267  
DB 146 CCGTGGCCGCTTCTTGGAGAGTCCCTTCGACAGCCCTCTTGGATCCCTAGGTTT 205  
QY 268 GCACTTCAGAAACCCCGAGCCCTGGAAGAAATGAGATGCTACCACTTACCCGCT 327  
DB 206 GCACTTCAGAAACCCCGAGCCCTGGAAGAAATGAGATGCTACCACTTACCCGCT 265  
QY 328 GGGTCCCTGAGAGTCTCTGAGGCTGAGTCTGATGATGCTGAGCAAGCGGGA 384  
DB 266 AGTGTCTCCAGAGACCGATATGCTCTGAGAGCTTTCACAAAGAAAA 325  
QY 385 CGGTACAGAGTGGCTTCAAGAGAGAGTGTGATCTGATGAGTAAAGCGCGCGG 444  
DB 326 GAGAAATCCCTTTAAAGTTTCTGAAGAGTGTCTTACCTGAATATTTACACCCCTGCT 385  
QY 445 CCGGCGCCCGGAGATCCCGAGCTGCAAGTGTCTGTTCCCGGAGCGGCTTCTATC 504  
DB 386 GACCTGACAAAGAGAGAGAGGCTGCGGATGTGTGATTCATGAGAGTGTGTGATG 445  
QY 505 GTGGGCGCTGCTTCTTGTGACAGAGGCTGATGAGCGCGCGGAGAAAGTGTGCTG 564  
DB 446 GTGGGCGAGCATCACTATGATGCTGTGCTCTTCTGCGCCATGAGAAAGTGTGTG 505  
QY 565 GTGTTTCTGAGAGCAGAGGCTCGGATCTTCTGCTTCTGAGAGCGGAGCGAGCGG 624  
DB 506 GTGACCATTCAGTACCGCTTGGAGATCTTGAAGATCTTGAAGATCAGACGAGAGTCAA 565  
QY 625 CCGGAGAACTGCGGCGTGTGAGACAGATGCGGCTGTGCGTGTGAGAGAAATC 684  
DB 566 CCGAGGAACTGCGGCGTGTGAGACAGATGCGGCTGTGCGTGTGAGAGAAATC 625  
QY 685 GCAAGCTTGGGAGAGACCAAGAAATGTGACCTGTGCGGAGTGTGCGGCGGAGT 744  
DB 626 GCGAACCTTGGAGAGAGACCAAGGCTGTGACCATCTTGGAGATCAGACGAGAGTCAA 685  
QY 745 AGCATCTCAGAGTATGATGATGATGATGATGATGATGATGATGATGATGATGATG 804  
DB 686 AGTGTCTTATCTTCTTATATATCCCTGAGACCAAGATCTCTTCACTGAGAGAAATTC 745  
QY 805 CAGAGTGGACCGGTTATTCAGACTTTTATCATCTAGTAAACCACTGAAAGTGGCAAG 864  
DB 746 GAGAGTGGGAGGCTCTCTTCACTGTCTTCAAGAAAGCAAGTCTTGGCTGAG 805  
QY 865 AAGTTTGGCCACTTGTGTGATGACACACAGACACACAGATCTGTGTAATCTGCTG 924  
DB 806 AAGTTTGGCCACTTGTGTGATGACACACAGACACACAGATCTGTGTAATCTGCTG 865  
QY 925 AGGAGCATATCAGAGACCAAGGATGCGTGTGCAACAAGATGATTCCTCCAACTG 984  
DB 866 CCGCAGAAAGACAGAGAAATCTATGAGAGTGAATGAAATTAATTAATGAGCTTA 925  
QY 985 AACTTCAGAGAGACCGGAGAGATTAATCTGTTCATGAGCGCTGTGTGATGAGTGTG 1044  
DB 926 GATCTAGTTGGAGACCCCAAGAGAAACAGGCTTCTGACCATGTGATGATGAGGAGT 985  
QY 1045 GTGATCCAGATGACCTTTGTGTGCTGTGACCCAGAGGAGAGTTTCAATCTGTGCTTAC 1104  
DB 986 CTGTCTCCAAAGACCTGAGAGATCTGTGAGAGAAATATACAAATGCTGCTTAC 1045  
QY 1105 CTTCTAGTGTCAACAACTGAAATCAATGAGCTGTGCTTAATATCAATGAAATTCGCG 1164  
DB 1046 ATGTGTGAATCAACAGAGAGTTTGTGTGATTAATCCCAATGCAAAATGTGGCTAT 1105  
QY 1165 CTAAACCGGAGGCGA---TGAGAAAGAAACCATCTAAGATGCTGTGAGTACCGCG 1221  
DB 1106 CCACTCTGTGAAGGCAACTGAGCCAGAAAGACGCTACAGAACTTGTGTGAAAGTCTTAC 1165

QY 1222 ACCCTGTGAATATATCAAGAGAGAGTACCATCTTGTGTGAGAGATCTTGAACAT 1281  
DB 1166 CCCATTTGCAATGTCTTAAGAGAGTGAATCCAGTGGGCACTGAGAAATTTTACGAGCG 1225  
QY 1282 GTCAATGAGCATGATGGAAGTGTACGAAACCGTATGATGAGATGTTTCAAGATGCC 1341  
DB 1226 ACAGATGACCTTGTCAAAAGH-----AAGCTTTGTTCTGTGACATGCTTGCAGATTTTG 1279  
QY 1342 ACTTGTGTATGCAACATGCACTGCACTGTCACTACCAACGAGATGCGGCTTCCCTGTC 1401  
DB 1280 TTATTTGTGTGTCATCTGTGATGATGTGCTGTGTGACCAAGAGATGTGAGGCCCCAAC 1339  
QY 1402 TACCTGTATGATTTTGAACCAAGCTGTG---TGAAATATGTGTAAACCCGCACTGAT 1458  
DB 1340 TATATGTATGATATCGATATGCGCAAGCTTCTCATGACATGAGACCCAAAGCAAGTGT 1399  
QY 1459 GGGGAGACATGAGGAGTGAATGATCTTCTTGTGGGGGCCCCCTGCGCCAGAGCCTT 1518  
DB 1400 ATAGGAGACATGAGATGAGATCTTCTGTGTGAGAGCCCCGTTTTTAAAGAGGT 1459  
QY 1519 TCCATGGGTAAAGAGAGAGCACTTACCTTCAGATGATGAAATATCTGGGCCAATTTTGC 1578  
DB 1460 GCCACAGAAAGAGAGATCAAACTGAGCAAGATGTGATGAAATATCTGGGCCAATTTTGC 1519  
QY 1579 CGCACAGAAACCCCAATGATGGAATTTGCTCTGCTGCGCCAGCTTACACAAAGATGA 1638  
DB 1520 AAGAAATGGAAATCCCAATGGAAGAGGCTTCTCATATGCGCAGCATATGATCAAGAA 1579  
QY 1639 AAGTACCTGAGCTGATTTTACCAAGAGATGAGGCTCAAGAGAGAGAAAGATG 1698  
DB 1580 GGTTCCTGCAATTTGAGACCAACCAAGGAGCCCAAGAACTGAAGAAAGAGTGT 1639  
QY 1639 GCTTTTGA 1708  
DB 1640 GCTTTCTGA 1649

RESULT 4  
US-09-264-737-3  
; Sequence 3, Application US/09264737A  
; Patent No. 6107549  
; GENERAL INFORMATION:  
; APPLICANT: Feng, Paul C.C.  
; APPLICANT: Ruff, Thomas G.  
; TITLE OF INVENTION: Engineering Plant Resistance to Pyridines via  
; FILE REFERENCE: 38-21(1051) R1E3 Pyridine Tolerance  
; CURRENT APPLICATION NUMBER: US/09/264,737A  
; CURRENT FILING DATE: 1999-03-09  
; EARLIER APPLICATION NUMBER: 60/077,377  
; EARLIER FILING DATE: 1998-03-10  
; NUMBER OF SEQ ID NOS: 11  
; SOFTWARE: PatentIn Ver. 2.0  
; SEQ ID NO 3  
; LENGTH: 1701  
; TYPE: DNA  
; ORGANISM: Rabbit  
US-09-264-737-3

Query Match 24.2%; Score 424; DB 3; Length 1701;  
Best Local Similarity 57.0%; Pred. No. 1.6e-103;  
Matches 860; Conservative 0; Mismatches 635; Indels 15; Gaps 4;

QY 208 CCCATCAAGTCTTTTAAAGAGTCCCTTCACAGACCTCTCTAGTATCCCTAGGTTT 267  
DB 139 CCGTGGCCGCTTCTTGGAGAGTCCCTTCGCAAGCCCTCTTGGATCCCTAGGTTT 198  
QY 268 GCACTTCAGAAACCCCGAGCCCTGGAAGAAATGAGATGCTACCACTTACCCGCT 327  
DB 199 GCACTTCAGAAACCCCGAGCCCTGGAAGAAATGAGATGCTACCACTTACCCGCT 258  
QY 328 GGGTCCCTGAGAGTCTCTGAGGCTGAGTCTGATGATGCTGAGCAAGCGGGA 384









Db	615	ACTGAGAGACAAAGCAGCAACCGGAACTG666GCTACTGTGACCAAGTGGCTGTGACCTACGC	674
Qy	667	TGGGTGACGAGAAACAATCGACGCTTGGGGGAGAACCCAGAAATGTGACCTGTTCGC	726
Db	675	TGGGTTCAGACGAATATCGCCACTTTGGAGGCAACCTCACCGTGTCACAATTTTGGG	734
Qy	727	CAGTCGGGGGGGCGCATGACGATCTCAGGACTGATGATGTCACTCCCTAGGCTGGGGCTC	786
Db	735	GAGCTCGGGGTGGCAAGAGTGTCTTCGGTGTGTGTCTCCCATATCCCAAGGATC	794
Qy	787	TTCCATGCGGCGCAATTTCCAGAGTGGACCGCGTTATTCAGACTTTTCATCATAGTAAC	846
Db	795	TTCCACGAGCGCATCATGAGAGTGGGTGGCCCTCTGCGCCGGCGCTCATTTGCCAGCTCA	854
Qy	847	CCACTGAAAGTGGCCAAAGAGTTGGCCACTGGCTGATGACCAACAACAGCACAG	906
Db	855	GCTATGTGATCTCTCAAGTGTGGCCAACTGTCTGCTGTGACCAAGTTGACTTGAG	914
Qy	907	ATCTGTGTAACTGCTCTGAGGGGCACTATCAGGGACCAAGGTGATGCGTGTGCCAAG	966
Db	915	GCCCTGTGGGTGTGCTCGCGG-----GCAAGATTAAG	948
Qy	967	ATGAGATTTCCCAACTGGAATTCCAGAGAGCCCGAAGAGATTTATCTGGTCCATGAGC	1026
Db	949	AGGAGATTTCTTGCAAT-----AACAGCCTTTCAAGATATCCCC	989
Qy	1027	CTGTGTGTGATGAGTGTGTGTGATCCAGATGACCTTTGTGTCTCTGACCCAGGGAG	1086
Db	990	GGAATGTGTGATGGGGTCTTCCTGCCACGACCCCGAGGAGCTGTGGCTGTGCCGAC	1049
Qy	1087	GTTTCATCTGTGCCCCATCTTCTAGGTGTCAACAACCTGGAATTCATTTGGCTCTTGCT	1146
Db	1050	TTTACGCTGTGCTCTAGCATTTGTGTGTCAACAACATGAATTCGCTGTGCTATCCCC	1109
Qy	1147	TATATCATGAGTTCCTCGCTAAACCGGACGGAGATGAGAAAGAAACCATGACTAAGATG	1206
Db	1110	AAGGTCATGAGAGATCTATGATATCCAGAGAAATGACAGAGGCTTCCAGGCTGT	1169
Qy	1207	CTCTGAGTACCCGCACTCTGTGTAATTCACCAAGAGCAGTATCCACTTGTGTGAG	1266
Db	1170	CTGCAAGAAATGTTAAAGCTGTGATGTGTGCTCTCAATTTGGTACCTGTCAAGGAG	1229
Qy	1267	GAGTACTGTGACATGTCAATGACATGACTGGAAATGTACGAAACGTAATGATGAC	1326
Db	1230	GAGT-----ACATGTGGGACAAATGGGATCCCCAGACCTTCAAGCGCAATTCAGAG	1283
Qy	1327	ATAGTTCAAAGTCCACTTTGTGTATGCCACATGCGACATGCTCATACACGAGAT	1386
Db	1284	ATGATGGGCGACTCCATGTGTGTGTATCCCTGTGACTCCAAATGACATATTTCAAGT--T	1340
Qy	1387	GCCGGCTCTCCGTGTACTGTATGAATTTGAGCAGACGCTGTGG--AATATCGTC	1443
Db	1341	TCCGGGGGCCCTGTGTATCTTCTACAGATTTCCAGATCAAGCCAGGTGGCTCAAGAACTC	1400
Qy	1444	AAACCCGCACTGATGGGCGAGACCATGAGGAGTGAATGATCTTCTTTGGGGGCCCC	1503
Db	1401	AGGCCACCGCATGAAAGCAGACCATGTGTATGAGCTTCTTTGTTTCAAGATTTTC	1460
Qy	1504	TT-----CGCACAGGCTTTCCATGGGTATGAGAGAGGACCTTAGCTCAAGTATG	1557
Db	1461	TTTGGGGGCACACTATTAAATTTCACTAGGAGAGGAGCAGCTAAGAGAAAGTATG	1520
Qy	1558	AAATATCTGGGSCCACTTTGGCCGCGACAGAAACCCCAATGATGGGAATCTGCGCTGTGG	1612
Db	1521	AAGTACTGGGCCCACTTTGCCAGAAATGGGAACCCCATGTGGGAGGGTCTGTGCACACTGG	1588
Qy	1618	CCAGGCTACAAACAGATGAAAAAGTACTGTGAGCTGATTTTACACAAGAGTGGGCAATG	1677
Db	1581	CCGCTGTTTCACAGAGAGGAGCAATATCTGACGTGAACCTTACAGCTGCGGTGGCCGG	1640
Qy	1678	AAGCTTCAGAGAGAAAGATGGCTTTTGGATGA	1711
Db	1641	GCTCTGAAGGCCCAAGGCTCCAGTTCAGTTCTGGAAGA	1674

	RESULT 7	
	US-09-949-016-555	
	: Sequence 555, Application US/09949016	
	: Patent No. 6812339	
	: GENERAL INFORMATION:	
	: APPLICANT: VENTER, J. Craig et al.	
	: TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED	
	: FILE REFERENCE: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF	
	: FILE REFERENCE: CLO01307	
	: CURRENT APPLICATION NUMBER: US/09/949,016	
	: CURRENT FILING DATE: 2000-04-14	
	: PRIOR APPLICATION NUMBER: 60/241,755	
	: PRIOR FILING DATE: 2000-10-20	
	: PRIOR APPLICATION NUMBER: 60/237,768	
	: PRIOR FILING DATE: 2000-10-03	
	: PRIOR APPLICATION NUMBER: 60/231,498	
	: PRIOR FILING DATE: 2000-09-08	
	: NUMBER OF SEQ ID NOS: 207012	
	: SOFTWARE: FastSeq for Windows Version 4.0	
	: SEQ ID NO 555	
	: LENGTH: 2169	
	: TYPE: DNA	
	: ORGANISM: Human	
	US-09-949-016-555	
	Query Match	18.2%; Score 319.2; DB 3; Length 2169;
	Best Local Similarity	54.0%; Pred. No. 2,4e-75;
	Matches 828; Conservative	0; Mismatches 643; Indels 63; Gaps 6;
OY	187 CAGATGCATGTGGGGAAGAACCCTTCACAAAGTCTTTTAGAGTCCCTTCTCAGACT	246
DB	195 CATGGAAGGGGCCCAATGCCCGGGTCCAACCTTCTGGGAATTCCATTTCGAAGCCA	254
OY	247 CCTTAGGTATCTCAGGTTTTGCACCTTCAGAACCCCCGAGGCTTGAAAGAAATCAGA	306
DB	255 CCTTAGGTCCGCTCGAATTTGCACCCCCTGAGCCCCCGAATCTTGGAGTGTGTGAGG	314
OY	307 GATGCTACCACTTACCCGCTGGGTGCTGTCAGAGAGTCTGGGGCCAGCTGGCTGATG	366
DB	315 GATGGAACCAACCATTCGGGCATGTGTCTACAGAACTCACCGCACTGAGTCAAGTTT	374
OY	367 TAAGTCAGAGACCGGGGAACGGTAACAAGTGGCGCTTCAGCGAGGACTGTCTGACTG	426
DB	375 CTTAGGCAAGTTCACATGACTTTCCTTCCGACTCATGTCTGAGGACTGCTGACTTC	434
OY	427 AACGTGTACGCGCGCGCGCGCGCGCCCGGGGATCCCACCTGTCAGTATGTCTGGTTC	486
DB	435 AGCATCTACAGCCCGGCCCATAGCATGAAGGCTTAACTCGCGGATGTGTGATC	494
OY	487 CCGGAGAGGCGCTTATCGTGTGGCGCTGCTTCTTCTGTAAGAAGGCTCTGACTTGGCCGCC	546
DB	495 CACGGTGTGCGCTTGTTTTGGCATGAGGCTTCTCTTATGATGATGTTTCATGCTGGCTGCC	554
OY	547 CGCGAAGAGTGTGTGTGTTTCTGACAGCAGAGCTCGGCATCTTCCGCTTCTGAGC	606
DB	555 TTGGAGAAAGTGTGTGTGTTATCATTCAGTACCGGCTGGGnTTCCTGGGCTTCTTACG	614
OY	607 ACGAGCAGACGACGCGCGCGGGGAACTGGGGGCTGCTGAGCAAGATGGCGGCTTGGCC	666
DB	615 ACTGGAGACAAACACCAACCGGCACTGGGGGCTACCTGGACCAAGTGGCTGACATACGC	674
OY	667 TGGGTGACAGAGAAATGCAAGCTTCGGGGGAGACCCAGAAATGGAACCTGTGTGGC	726
DB	675 TGGGTTCACACAGATATGTGGCCACTTTGAGAGGCAACCTTGACCGTGCACCATTTTGGC	734
OY	727 CAGTCGCGCGGGGCCCATGAGCATCTGAGACTGATGATGTACACCCCTAGCCTCGGGTTC	786
DB	735 GAGTCTGCGGGTGGCAGAGTGTGTCTTGGCTTGTGTGTGCCCATATCCAAAGGATTC	794
OY	787 TTCATCGGGCCATTTCCAGATGGCACCGGCTTATCAGACTTTTTCATCATAGTAAC	846

Db 795 TTCACGAGGACATCATGAGAGTGGCGTGGCCCTCGCCGCGCTCATTTGCAGCTCA 854  
Qy 847 CCACTGAAGATGGCCCAAGAGTTGGCCACCTTGGCTGATGCAACCAACAGCACAG 906  
Db 855 GCTGATGTCATCTCCACGGGTGGGCAACCTGTCTGCTGACCAAGTTGACTCTGAG 914  
Qy 907 ATCTGTAACTGCTGAGGGGCACTATCAGGAGCAAGGTATGCTGTGTCACCAAG 966  
Db 915 GCGCTGTGGGCTGCTGCGGG-----GCAAGATTAAG 948  
Qy 967 ATGAGATCTCTCCACTGAATCTTCAGAGAACCCGAAAGATTAATCTGTCCATGAC 1026  
Db 949 AGAGATTCCTGCAATT-----AACAAAGCTTTCAAGATGATCCCG 989  
Qy 1027 CCTGTGTGATGATGATGATGATCCAGATGACCTTTGTGTCTTGCACCGAGGAG 1086  
Db 990 GGAAGTGTGATGAGGTCTTCTCGCCAGGACCCCCAGAGAGTGTGCTGCGCTCGCGAC 1049  
Qy 1087 GTTTCATCTGTGCTTACCTTCTAGGTGTCAACACCTGGAATTCATTTGGCTCTTGCT 1146  
Db 1050 TTTTCAGCTGTCTCTAGCATTTGTGTGTCTACACCAATTAATTCGGCTGCTCATCCCG 1109  
Qy 1147 TATATCATGAAGTTCCCGTAAACCGGCAAGCGATGAGAAAGAAACATCACTAAGATG 1206  
Db 1110 AAGGTATGAGGATCTATGATACCCAGAAAGAAATGACAGAGAGGCTCCAGGCTGCT 1169  
Qy 1207 CTCTGAGATACCGGACCTCTGTGTAATATCAACAGAGAGATACCATTTGTGTGAG 1266  
Db 1170 CTGCAAAAATGTTAAACGTCTGATGTTGCTCTCACTTGTGTGACCTGTGAGGAG 1229  
Qy 1267 GAGTACTGGAACATGTCAATGAGCATGACTGGAAGATGCTAGAAACGGTATGATGAC 1326  
Db 1230 GAGT-----ACATTGGGACAAATGGGAGATCCCAACCTCTCAAGCGAGTTCCAGAG 1283  
Qy 1327 ATAGTCAAGATGCCACTTTCGTATGCACTGCAAGATGCTCACTACCAACCGAGAT 1386  
Db 1284 ATGATGGCGGACTCCATGTTGTGATCCCTGCACTCAAGTATGACATTTTGAGTG---T 1340  
Qy 1387 GCGGCTCTCTGTCTTACCTGTATGAAATTTGAGCACAGCTGTGTG---AATATGCTG 1443  
Db 1341 TCCCGGCGCCCTGTGTATCTTCAAGATTCAGACATCCAGCTGCTCAAGAACATC 1400  
Qy 1444 AAAACCCGCACTGATGGGCGAGACATGGGAGATGATGTAATCTCTTTGGGCGGCC 1503  
Db 1401 AAGCCACCGCAATGAAGGACACATGATGATGATCTCTTTTGTTCAGAAATTC 1460  
Qy 1504 TT-----GCGCACAGGCTTTTCATGGGTAAAGAGAGCACTTAAGCTTCAGATGATG 1557  
Db 1461 TTTGGGGGCACTAATTAATTCATCTGAGAAAGAGAGAGCTAAGAGAAAGATGATG 1520  
Qy 1558 AAATTAATGGGCACTTTTCCCGCACAGAAACCCCAATGATGAGAAATCTGCTGTG 1617  
Db 1521 AAGTACTGGGCACTTTGCGAAGAAATGGAAACCCCAATGGCGAGGTCTGCGACACTG 1580  
Qy 1618 CCAAGCTTAAACAAGATGAAAGAACTGAGCTGATGATTTTACCAAGAGAGGAGATG 1677  
Db 1581 CCGCTGTGACCAAGAGAGAGCAATCTGCACTTAACAGCTGCTGCGATGGGCGG 1640  
Qy 1678 AAGCTCAAGAGAGAAAGATGCTTTTGGATGA 1711  
Db 1641 GCTCTGAAGGCCACAGGCTCCAGTTCTGGAAGA 1674

RESULT 8  
US-09-595-682B-27  
; Sequence 27, Application US/09595682B  
; Patent No. 6800483

; GENERAL INFORMATION:  
; APPLICANT: Danke, Mary K.  
; APPLICANT: Potter, Philip M.  
; APPLICANT: Houghton, Peter J.  
; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth of  
; TITLE OF INVENTION: Tumor Cells

FILE REFERENCE: SJ-0005  
CURRENT APPLICATION NUMBER: US/09/595,682B  
CURRENT FILING DATE: 2000-01-16  
PRIOR APPLICATION NUMBER: 60/075,258  
PRIOR FILING DATE: 1998-02-19  
PRIOR APPLICATION NUMBER: PCT/US99/03171  
PRIOR FILING DATE: 1998-02-12  
NUMBER OF SEQ ID NOS: 30  
SOFTWARE: Patencin Ver. 2.0  
SEQ ID NO 27  
LENGTH: 2191  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-09-595-682B-27

Query Match 18.2%; Score 319.2; DB 3; Length 2191;  
Best Local Similarity 54.0%; Pred. No. 2.4e-75;  
Matches 828; Conservative 0; Mismatches 643; Indels 63; Gaps 6;

Qy 187 CAGATGCAATGAGGAGAAAGACCCATCCAGTCTTTTAAAGAGTCCCTTCTCCAGACTT 246  
Db 217 CATGTAAAGGGGCCAAATGCCGGGGTCCAAACCTTCTGGGAATTCATTGGCCAAAGCCA 276  
Qy 247 CCTTAGGATCTCAGAGTTTGCACCTCCAGAACCCCGAGACCCTGGAAGAAATACAGA 306  
Db 277 CCTTAGTCCGCTCGATTTTGACATCCCTGAGCCCTCTGAATCTTGAAGTGTGTAGG 336  
Qy 307 GATGTACCACTTACCCGCTGGGTGCTGACAGAGTCTGGAGCAAGCTGCTGATG 366  
Db 337 GATGGAACCAACCATCCGCGCATGTGTCTACAGAGCTCACCGAGTGAAGTCAAGTTT 396  
Qy 367 TACGTACAGCGCGGAAACGATCAAGTGTGCTGCTTCAAGAGAGATCTGTCTGACTG 426  
Db 397 CTTAAGCAGTTCAACATGACCTTCCCTCCGATCAGTCTGAGAGACTGCTGTAACTTC 456  
Qy 427 AACGTGTACG 486  
Db 457 AGCATCTACAGCG 516  
Qy 487 CCGGAGGCGCCTTATGATGAGGCGCTGCTTCTGTAAGAGAGCTGATCTGAGCCGCG 546  
Db 517 CAGGATGAGCGCTGTTTGTGGCATGAGCTTCTTGTATGATGATGTTTCAATGCTGCTG 576  
Qy 547 CCGGAGAAAGTGTGTGTGTTTCTGACACAGAGCTCGGATCTTGGCTTCTGAGC 606  
Db 577 TTGAGAAAGTGTGTGTGATCAATCAATCCGCTGAGGTGTCTGGGCTTCTTCAGC 636  
Qy 607 ACGAGACAGCAGCGCGCGCGGAACTGGGAGCTGTGAGACAGATGGCGCTGCGCG 666  
Db 637 ACTGAGACAGACAGCGCAACCGGCACTGGGCTACTGAGACCAAGTGGCTGACTACCG 696  
Qy 667 TGGGTGAGAGAAACATGCAAGCTTGGGGGAGACCGAGAAATGTGACCTGTTCGGC 726  
Db 697 TGGGTCAAGCAAAATATGCCCACTTTGAGGCAACCTGACCGTGTACCACTTTTGGC 756  
Qy 727 CAGTGGGGGGGCGCATGAGATCTGAGATCTGATGATGACCTTACCTGAGTCTC 786  
Db 757 GAGTCTGGGGGAGCAAGTGTGCTTGCCTTGTGTGTCCCCATATCCCAAGAGACTC 816  
Qy 787 TTCATCGGGGCACTTCCAGAGTGGGACCGGCTTATTCAGACTTTTATCATCTAGTAAC 846  
Db 817 TTCACGAGGCAATGAGAGAGTGGGCTGCTCTGCGCGGCTTCAATTCAGACTCA 876  
Qy 847 CCACTGAAGTGGCCAAAGAGTTGCCCACTGCTGATGACCAACCAAGACACAG 906  
Db 877 GCTGATGATCTCCAGGAGTGTGGCAACCTGTGCTGTGACCAAGTTGACTGTAG 936  
Qy 907 ATCTGTAACTGCTTGAAGGCACTATCAGGAGCAACAAAGTATGCTGTGTCAAAG 966  
Db 937 GCGCTGTGGGCTGCTGCGG-----GCAAGATTAAG 970  
Qy 967 ATGAGATTCCTCACTGAATCTTCAGAGAGACCCGGAAGATTAATGCTGCTCAAGAC 1026

Db	971	AGAGAGATTCCTTGCAATT-----AACAGACCTTTCAAGATGATCCCC	1011
Qy	1027	CTGTGTGTGATGTGTGTGTGTGATCCAGATGACCTCTTGTGCTCTGACCCAGGGGAAg	1086
Db	1012	GGATGTGTGTGATGTGGGTCTTCTCTCCAGGCACCCCAGGAGCTGTGGCTCTGCCAGC	1071
Qy	1087	GTTTCACTGTGTGCCCCCTACCTTTGAGTGTCAAAACCTGGAAATTCAATTGGCTCTTGCCCT	1146
Db	1072	TTTTCAGCCTGTCCCTTAAGCATTTGTGTGTGTCAACAACAAATGAATTTGCGCTGGCTATCCCC	1131
Qy	1147	TATATCAATGAAGTTCCCGCTAAACCGGACGGCGATGAGAAAGAAACATCACTAAATGATG	1206
Db	1132	AAGGTCATGAGGATCTATGATATCCAGAAAGGAATGACAGAGAGGCTCCAGGCTGCT	1191
Qy	1207	CTGTGAGTACCCGCAACCTGTGTAAATATCAACAAGACAGTTACCACTTGTGTGTAG	1266
Db	1192	CTGCAGAAAATGTTAAACGCTGCTGATGTTGCTCTCTACATTTGGTGTGACTGTCTCAAGGAG	1251
Qy	1267	GAGTATCTGTGACAAATGTCTCATGACAGTACCTGGAAGATGTAACGAAACCGATGATGAAAC	1326
Db	1252	GAGT-----ACATTTGGGGACAAATGGGGATCCCCAGACCTTCCAAAGCGAGTTCCAGAG	1305
Qy	1327	ATAGTTCAAGATGCCACTTTCGTGTATGCCACACTGACAGCTGTCTCACTACACCGAGAT	1386
Db	1306	ATGATGTGGGAGCTCATATTTTGTGTATCCCTGTGACTCTCCAAAGTACACATTTTCAGTG---	1352
Qy	1387	GCCGGCCCTCCCTGTCTACCTGTATGAATTTTGAACAACAGCTCGTGG---AATAATGCTC	1443
Db	1363	TCCGGGGGCCCTGTGTGTATCTTCTAGAGATTTCCAGGATCAAGCCAGGTGGCTCAAGAACATC	1422
Qy	1444	AAATCCCGCACTGATGTGGGCAAGACCATGTGGATGTGATCTTCTCTTTGGGGGCCCC	1503
Db	1423	AGGCCAACCGCAATGAAAGGACAGACCATGTGTATGTGCTTCTTTGTGTTTCAAGAAATTTTC	1482
Qy	1504	TT-----CGCAACAGGCGCTTTCCATGTGGATGAAGAGAGGCACTTAGCCTCAATGATGATG	1557
Db	1483	TTTGGGGGGCAACTATTAATTAATCTAGAGGAAGAGACAGCTTAAGCAGGAAGATGATG	1542
Qy	1558	AAATATCTGGGCCAATTGTGCCCGCAAGAAACCCCAATGATGTGGAAATCTGCCCTGTGG	1617
Db	1543	AAATATCTGGGCCAATTGTGGCGAAGATGTGGAAACCCCAATGTGGAGGGGTCTGCCACATCGG	1602
Qy	1618	CCACGCTACAAACAGATGAAAAAGTAACTGTGACGTGAAATTTTACCAACAAGATGTGGCATG	1677
Db	1603	CCGCTGTTTGACACAGAGGAGCAATCTGTGACGTGAACATCAACGCTGTCCGCTGTGGCCGG	1662
Qy	1678	AAAGTCAAGAGAGAAAGATGCTTTTGTGATGA	1711
Db	1663	GCTTGAAAGGCCACAGGCTCCAGTTCATGTGGAAGA	1696

```

/ RESULT 9
/ US-10-023-515-3
/ Sequence 3, Application US/10023515
/ Patent No. 6664091
/ GENERAL INFORMATION:
/ APPLICANT: Curtis, Rory A. J.,
/ APPLICANT: Siles-Santiago, Inmaculada
/ TITLE OF INVENTION: 5010, A NOVEL HUMAN CARBOXYESTERASE
/ TITLE OF INVENTION: FAMILY MEMBER AND USES THEREOF
/ FILE REFERENCE: 10448-122001
/ CURRENT APPLICATION NUMBER: US/10/023,515
/ CURRENT FILING DATE: 2001-12-18
/ PRIOR APPLICATION NUMBER: 60/256,369
/ PRIOR FILING DATE: 2000-12-18
/ PRIOR APPLICATION NUMBER: 60/279,508
/ NUMBER OF SEQ ID NOS: 6
/ SOFTWARE: FastSeq for Windows Version 4.0
/ SEQ ID NO 3
/ LENGTH: 1746
/ TYPE: DNA
/ ORGANISM: Homo sapiens

```

US-10-023-515-3

Query Match 15.6%; Score 272.8; DB 3; Length 1746;  
Best Local Similarity 53.0%; Pred. No. 6.2e-63;  
Matches 812; Conservative 0; Mismatches 627; Indels 93; Gaps 7.

208 CCGATCCAAAGCTTTTATAGAGAGTCCCTTCCTCCAGACCTCTCTAGGTATCCACAGTTT 267  
175 CTTGTAAACGTTTCTCTGGAGTCCCTTTGCTGTCTCCCGCTGGGATCCCTTGCAATT 234  
268 GCACCTCCAAAGACCCCGGAGCCTCTGGAAGAAATCAGAGATGTCTACCTTACCCGCT 327  
235 ACGAAGCCCGCAGCTGTGATCGCCTCTGGGAATACCTTGGAGAAAGCACTTCTACCTTAAT 294  
328 GGGAGCCCTGACGAGAGTCTGGGGCCAGCTGAGCCTGCATGTATACGTACAGCACGCGGAAACGG 387  
295 TTGTGACCTCCAGAACTCAGAGT---GCTGCTTTAATACACATGCTTCAGGTGCAT 351  
388 TACAAGTGGCTGCGCTTCAAGCAGAGACTGTCTGTACCTGAACGTGATCGCGCCGCGC 447  
352 TACCGGAATTCGAGAGTGCAGAAAGACTGCTTACTGAACATCTATGGCGTCGCCAC 411  
448 GCGCCCGGGAGATCCCAAGCTGCCAGATAGTGTCTGTGTTCCCGGAGGCCCTTCATGTG 507  
412 GCCCATACAGGCTCAAGCTCCCGCTCTGTGTGTGTTCCAGGAGGTGCTTCAGACT 471  
508 GCGCGTCTTCTTGTATCAGAGGGCTCTGACTGTGGCGCCCGCGGAATAGTGTCTGTG 567  
472 GAGCTAGGCTCATCTTGTATGGGATCCGCTCTGGCTGTCTATGAGAGCTGTGTTGTG 531  
568 TTTCTGCAGCACAGGCTCGGACTCTTGGCTTCTGTAGACAGGACGACGACGCGC 627  
532 GTCTGCAGATACCGGCTAGAAATATTGTGTTTCTTCAACACATGGATCAGCATGCTCG 591  
628 GGGAACTGGGGAGCTGTGTGACACAAATGGCGCTCTGCGTGGGTGTGACAGAGAACATGTGCA 687  
592 GGGAACTGGGGCTTCAAGAGACAGATGGCTGTCTGTCTGTGGATCAGAAAGAACATGTGAG 651  
688 GCCTTCGGGGAGAGACCGAGAAATGTGACCTGTTCGGCCAGTGGCGGGGGCCATGAGC 747  
652 TTTCTCGGTGGAGACCCAGCTCTGTGACCATCTTTGGCAGATCCGCGGAGCCATAGT 711  
748 ATCTCAGGACTGTAGATGTCAACCCCTAGCCTCGGGTCTTTGCATCGGGCCATTTCGAG 807  
712 GTTTCTAATCTTATATCTGTCTCCATGAGCCAAAGGCTTATTCCAAGGACCATATGAG 771  
808 AGTGGACCGGCTTATTCAGACTTTTATCATCTATGTAAACCATCTGA-----AAGTGCC 861  
772 AGTGGGTGGGCATCATCTCTTACCTGGAGGCCATGTATATGAGAAAGTGAAGACCTG 831  
862 AAGAGGTGGCCACCTGGCTGTGATGTGCAACACAAACAGCACACAGATCCTGTAAATGCG 921  
832 CAGGTGTGTGACATTTCTGTGTATCAATGCGTACAGCTGTGAGGCCCTCTGTAGGTGTC 891  
922 CTGAGGGCACTATTCAGGAGCAAGGTGTATGCGTGTCTCAACAAGATGAGATTCTTCCA 981  
892 CTGAGGACAAAACCTCCAGAGAGTGTGACCTCAGCCAGAAAAACA----- 940  
982 CTGAACCTTCAGAGAGACCCGGAAGATTTATGTGTCTATGAGCCCTGTGTGTGATGT 1041  
941 -----AGTCTTTCACCTCGAGTGTGTATGT 966  
1042 GTGTGTATCCAGATGATCCCTTGTGTGCTCTGACCCAGAGGAAAGTTTCACTGTGTGCC 1101  
967 GCTTCTTCTTCATATGAGCCTCTAGATCTATTTGTCTCAGAAAGCATTTAAAGCAATTCT 1028  
1102 TACTTCTAGTGTCAACAACCTGGAATTCAATTGGCTCTTGCTTATATCATGAATTC 1161  
1027 TCCATATCTGAGATGATATACACACAGTGTGCTTCTGTGCTCATGTAAGAGGCTCTCT 1088  
1162 CCGCTAAACCGGACAGGCGATGGAAGAAACATCACTATGATGCTCTGGAGTACCCGC 1221  
1087 GAGATCTCAGTGGCTCCACAAGTCCCTTGCCCTTCATCTGAT-----ACAA 1134

QY 1222 ACCCTGTTGATATATCAACAAGAGAGAGGATACCACTTGTGTGAGAGATACCTGACAT 1281  
DB 1135 AACATCTGCAATCCCGCTCAGATTTTGACCTTGTGATATATAATCTTCCA---- 1190  
QY 1282 GTCAATGACATGACTGGAAGATGCTACGAAAACCGTATGATGACATAGTTCAAGATGCC 1341  
DB 1191 --TGACAAACATCCCTGACTGAATTCGAGACAGCTTCTTGACCTTGTGAGATGTG 1248  
QY 1342 ACTTTGTGTATGCACTGACACTGCTCACTACCAACCGAGATGCCGCTCCTGTGTC 1401  
DB 1249 TTCTTGTGTGCTCCCTGACTGATCAAGCTCGATATCAAGAGATCTGTGTGACCTGTGTC 1308  
QY 1402 TACCTGTATGAATTGAGACCAACGCTGTGATGAATATGTCAAAACCCCGCACTGATG-- 1459  
DB 1309 TACTTGTATGAGTTTGCGACACCGCTCAGTGTCTTGAAGAACAAGACCGGCTTTTGTGTC 1368  
QY 1460 -GGGACAGCATTGGAGATGATGATGATCTTCTTGTGGGGGCCCTTCCGCAACAGCCTT 1518  
DB 1369 AAAGCCGACACGCTGATGAAGTCCGCTTGTGTGCTGCTGCTTCTTGAAGGGGGAC 1428  
QY 1519 T-----CCATGGTAAAGAGAGAGCACTTAAGCTTCAATGATGA 1560  
DB 1429 ATGTGATGTTCGAAAGAGACGAGAGAGAGAAATTACTGAGCCGAAAGATGATGA 1488  
QY 1561 TACTGGGCAACTTTGCGCGACAGAGAAACCCCAATGATGAGAAATGCGCCCTGCTGCGCA 1620  
DB 1489 TACTGGGCACTCTTGTCTGCAACCGGAAATCTTAATGAGAAACGACTGTCTGTGGCA 1548  
QY 1621 CGCTACAAAGATGATAAGTACTGCACTGATGATTTTACCAAGATGAGCATGAAG 1680  
DB 1549 GCTTAAATCTGACTGAGGAGTACTCTCAAGCTGGACTTGAACATGAGCCTCGAAGAGAA 1608  
QY 1681 CTGAAGAGAGAAAGATGCTTTTGTGATGAG 1712  
DB 1609 CTCAAAGAAACCGGAGTGAATTTTGAACAG 1640

RESULT 10  
US-10-023-515-1  
Sequence 1, Application US/10023515  
Patent No. 6664091  
GENERAL INFORMATION:  
APPLICANT: Curtiss, Roy A. J.  
APPLICANT: Siles-Santiso, Immaculada  
TITLE OF INVENTION: 531010, A NOVEL HUMAN CARBOXYL ESTERASE  
FILE REFERENCE: 10448-122001  
CURRENT APPLICATION NUMBER: US/10/023,515  
PRIOR FILING DATE: 2001-12-18  
PRIOR APPLICATION NUMBER: 60/256,369  
PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 60/279,508  
NUMBER OF SEQ ID NOS: 6  
SOFTWARE: FastSeq for Windows Version 4.0  
SEQ ID NO: 1  
LENGTH: 2158  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (96)...(1838)  
US-10-023-515-1

Query Match 15.6%; Score 272.8; DB 3; Length 2158;  
Best Local Similarity 53.0%; Pred. No. 6.8e-63;  
Matches 812; Conservative 0; Mismatches 627; Indels 93; Gaps 7;  
QY 208 CCATCGAAGTCTTTTGAAGATCCCTTCTCAAGACCTCTCTAGATATCTCAGATT 267  
DB 270 CCGTGAAGCTGTCTCGAGATGCCCTTGTGCTGCTCCCGCTGGAGATCCCTGCAGATT 329

QY 268 GCACCTCGAAGACCCCGGAGCCCTGGAAGAAATCAGAGATGTACCAACCTACCCGCT 327  
DB 330 ACGAACCCGCAAGCTTGCATGCGCTTGGATTAATCTTGCAGAAACCACTTCTTAACCTTAAT 389  
QY 338 GGTGCTTCAGAGATCTCTGGGGCCAGCTGCTGATGATAGTACGTGACACCGCGAAACGG 387  
DB 330 TTGTGCTTCAGAACTCAGAGT--GCTGCTTATAGTCAACACATGCTCAGGGTGCAT 446  
QY 388 TAGAATGAGCTGCTTCAAGGAGAGCTGTCTGTACTGTAAAGTATAGCGCCGCGGC 447  
DB 447 TACCGAAATTCGAGGTCTGAAAGATGCTCTTACCTGAACATCTATAGCCGCTCCAC 506  
QY 448 GCGCCCGGAGATCCCGAGCTGCAATGATGATGCTGCTTCCGAGAGGCGCTTCAATGCTG 507  
DB 507 GCCATACAGGCTTCCAAAGCTCCCGCTTGTGTGATGCTTCCAGAGAGTGCCTTCAAGACT 566  
QY 508 GCGCTGCTTCTTCTGACAGAGGCTCTGACTTGGCCGCGCGAGAAAGTGTGCTGCTG 567  
DB 567 GGTCAAGCTCCTGATCTTTGATGAGGTCCGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 626  
QY 568 TTTCTGACAGACAGCTCGGCTCTTGGCTTCTGAGACAGAGACAGACAGCCGCGC 627  
DB 627 GTGTCTCAGTACCGCTGAGAAATTTGTGTTCTTACACATGAGGATCAGCATCTCG 686  
QY 628 GGGAACTGGGGCTGCTGAGACAGATGCGGCTGCGCTGCGCTGCGCTGCGCTGCGCTGCG 687  
DB 687 GGGAACTGGGCTTCAAGAGACAGATGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTG 746  
QY 688 GCTTTCGGGGAGACCCCAAGAAATGTGACCTGTTCCGCAAGTCCGCGGGGCCATGAGC 747  
DB 747 TTTCTTCGGGGAGACCCAGCTCTGTGACATCTTGGCAGATCCGCGGAGCCATTAAGT 806  
QY 748 ATCTCAAGACTGATATGTCACTCCCTGATGCTGCTGCTGCTGCTGCTGCTGCTGCTG 807  
DB 807 GTTCTGATGCTTATCTGCTCTCCATGAGCAAGGCTTATTCACAAAGCCATCATGAG 866  
QY 808 AGTGACACCGGCTTATCAAGCTTTTCACTTCACTAGTAAACCACTGA-----AGTGCC 861  
DB 867 AGTGAGGTGAGCCATATCTTCTTACCTGAGGCTCCATGATTAAGAAAGTGAAGACTG 926  
QY 862 AAGAAAGTTGCCCACTGCTGCTGATGCAACCAACAGACACAGATCTGTGTAACCTGC 921  
DB 927 CAGGTGTTGACATTTCTGTGTAAACAATGTGCAAGCTGAGAGCCCTGCTGAGGTGC 986  
QY 922 CTGAGGGCACTATCAAGGACCAAGGTGATGCTGTGCTCAACAAGATGATTTCTCAA 981  
DB 987 CTGAAGACAAACCTCCAAAGAGGCTGAGCCCTCAGCAAGAAACAA----- 1035  
QY 982 CTGAACCTCAGAGAGACCCGGAAGAAATTATCTGTGCTCAAGGCCCTGTGTGATGCT 1041  
DB 1036 -----AGCTTTTCACTGAGGTGATGCT 1061  
QY 1042 GTGTGATCTCAGATGACCTTGTGTCTCTGACCCAGAGGAGAGTTTCATCTGTGCC 1101  
DB 1062 GCTTCTTCTTAAAGAGCTCTTATGATGTCTCAAGAAAGCATTTAAAGCATTTCT 1121  
QY 1102 TACCTTGAAGTGTCAACACTGGAATTTCAATGGCTCTGCTTATATCAATGAAGTTC 1161  
DB 1122 TCCATCATCGAGATCAATTAACACAGATGTGCTTCTGCTGCTCATGAAAGAGCTCCT 1181  
QY 1162 CGGCTAAACCGGACAGGCTGAGAAAGAAACATCACTAGATAGATGCTGTGAGTACCCGC 1221  
DB 1182 GAGATCTCAGTGGCTCCAAAGATCCCTTGTGCTTCACTGAT-----ACAA 1229  
QY 1222 ACCCTGTTGATATATCAACAAGAGAGAGTACCACTTGTGTGAGAGATACCTGACAT 1281  
DB 1230 AACATCTGCAATCCCGCTCAGATTTTGACCTTGTGTGCTTAATGAATCTTCCA---- 1285  
QY 1282 GTCAATGACATGACTGGAAGATGCTACGAAAACCGTATGATGACATAGTTCAAGATGCC 1341  
DB 1286 --TGACAAAGACTCCCTGACTGAATTCGAGACAGACTTCTTGTGACTTGTGAGATGTG 1343  
QY 1342 ACTTTGTGTATGCACTGAGACTGTCACTACACCGAGATGCCGCTCCTGTC 1401



Db 1539 GATGAATACTGGGCTACCTTTGCTGAAACGGGAATCCAAATGGGAAGACCTGCTCT 1598  
Qy 1614 CTGGCCACGCTACACAAAGATGAAAAGTACTGCGAGCTGGATTTTACCAAGAGTGGG 1673  
Db 1599 GTGGCCAGCTTTAACTGACTGAGAGTAACTGCGAGCTGGACTTGAACATGAGCTCCG 1658  
Qy 1674 CATGAAGCTCAAGAGAAAGATGGCTTTTGGATGAG 1712  
Db 1659 ACAGAGACTCAAGAAACCGCGGATGGAGTTTGGACCAAG 1697

## RESULT 12

US-09-799-451-562  
; Sequence 562, Application US/09799451  
; Patent No. 6783969

## GENERAL INFORMATION:

APPLICANT: Tang, Y. Tom  
APPLICANT: Zhou, Ping  
APPLICANT: Goodrich, Ryle  
APPLICANT: Asundi, Vinod  
APPLICANT: Ren, Feiyan  
APPLICANT: Zhang, Jie  
APPLICANT: Xue, Aidong J.  
APPLICANT: Zhao, Qing A.  
APPLICANT: Wang, Jian-Rui  
APPLICANT: Ma, Yunding  
APPLICANT: Yamazaki, Victoria  
APPLICANT: Chen, Rui-hong  
APPLICANT: Wang, Zhiwei  
APPLICANT: Wang, Dunrui  
APPLICANT: Yang, Yonghong  
APPLICANT: Mehrman, Tom  
APPLICANT: Ghosh, Reena  
APPLICANT: Drmanac, Radoje T.  
TITLE OF INVENTION: No. 6783969e1 Nucleic Acids and  
FILE REFERENCE: 803  
CURRENT APPLICATION NUMBER: US/09/799,451  
CURRENT FILING DATE: 2001-03-05  
NUMBER OF SEQ ID NOS: 948  
SOFTWARE: pc\_fl\_genes Version 2.0  
SEQ ID NO 562  
LENGTH: 1453  
TYPE: DNA  
ORGANISM: Homo sapiens  
FEATURE:  
NAME/KEY: CDS  
LOCATION: (840)..(1070)  
US-09-799-451-562

## Query Match 13.9%; Score 243.4; DB 3; Length 1453;

Best Local Similarity 99.6%; Pred. No. 4.4e-55;  
Matches 244; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

Qy 1508 CCACAGAGCTTTCCATGGGTAAGAGAGGCACTTACCTCCAGATGAAATACTGGG 1567  
Db 826 CCCGAGGCTTTTCATGGGTAAGAGAGGCACTTACCTCCAGATGAAATACTGGG 885  
Qy 1568 CCAACTTTCGCCGACAGAGAAACCCCAATGATGGGAATCTGCCCTGCTGCGCAAGCTACA 1627  
Db 886 CCAACTTTCGCCGACAGAGAAACCCCAATGATGGGAATCTGCCCTGCTGCGCAAGCTACA 945  
Qy 1628 ACAAGATGAAAAGTACTGCGAGCTGGATTTTACCAAGAGTGGGCAATGAACTCAAG 1687  
Db 946 ACAAGATGAAAAGTACTGCGAGCTGGATTTTACCAAGAGTGGGCAATGAACTCAAG 1005  
Qy 1688 AGAAGAGATGGCTTTTGGATGATCTGTACAGCTCAAGAGCTGAGAGGAGGAGG 1747  
Db 1006 AGAAGAGATGGCTTTTGGATGATCTGTACAGCTCAAGAGCTGAGAGGAGGAGG 1065  
Qy 1748 AATTC 1752  
Db 1066 AATTC 1070

## RESULT 13

US-10-019-219-3  
; Sequence 3, Application US/10019219  
; Patent No. 6875844

## GENERAL INFORMATION:

APPLICANT: RONSIN, CHRISTOPHE  
APPLICANT: SCOTT, VERONIQUE  
APPLICANT: TRIBEL, FREDERIC  
TITLE OF INVENTION: PEPTIDE COMPOUND DERIVED FROM A SHIFTED ORF OF THE ICE  
FILE REFERENCE: 065691-0263  
CURRENT APPLICATION NUMBER: US/10/019,219  
CURRENT FILING DATE: 2002-05-15  
PRIOR APPLICATION NUMBER: PCT/FR00/01791  
PRIOR FILING DATE: 2000-06-27  
PRIOR APPLICATION NUMBER: FR 99/08224  
PRIOR FILING DATE: 1999-06-28  
NUMBER OF SEQ ID NOS: 8  
SOFTWARE: Patentin Ver. 2.1  
SEQ ID NO 3  
LENGTH: 521  
TYPE: DNA  
ORGANISM: Homo sapiens  
US-10-019-219-3

## Query Match 9.6%; Score 168.6; DB 3; Length 521;

Best Local Similarity 61.5%; Pred. No. 3.4e-35;  
Matches 270; Conservative 0; Mismatches 169; Indels 0; Gaps 0;

Qy 490 GGAGGCGCTTCATGTGGGCGCTGCTTCTTGTAAGAGGCTGACCTGGCCGCCG 549  
Db 3 GGTGTGGCGCTTGTATTGGGCAATGCTTCTTGTAATGATGGTTCCATGCTGCTGCTTG 62  
Qy 550 GAGAAAGTGTGCTGCTGCTTCTGAGACAGGCTCCGATTTGGGCTTCTGAGACG 609  
Db 63 GAGAAAGTGTGCTGCTGCTTCTGAGACAGGCTCCGATTTGGGCTTCTGAGACG 122  
Qy 610 GACGACAGCAGCGCGCGGGAATGCGGCGCTGCTGAGACAGATGGCGGCTTGGCTGG 669  
Db 123 GAGACAGCAGCGCGCGGGAATGCGGCGCTGCTGAGACAGATGGCGGCTTGGCTGG 182  
Qy 670 GTGCAAGAAATGTGCAAGCTTTCGGGGAGACCCAGAAATGTGACCTGTTGGCGAG 729  
Db 183 GTGCAAGAAATGTGCAAGCTTTCGGGGAGACCCAGAAATGTGACCTGTTGGCGAG 242  
Qy 730 TCGGCGGGGCGCATGAGCATCTCAGAGCTGATGATGTCAACCGCTAGCGGCTGCTTC 789  
Db 243 TCGGCGGGGCGCATGAGCATCTCAGAGCTGATGATGTCAACCGCTAGCGGCTGCTTC 302  
Qy 790 CATCGGCGCATTTCCAGAGTGGCACCGCGTTATTCAAGCTTTTATGACTAGTAACCA 849  
Db 303 CATCGGCGCATTTCCAGAGTGGCACCGCGTTATTCAAGCTTTTATGACTAGTAACCA 362  
Qy 850 CTGAAAGTGGCCAGAGAGTTGCCCACTGCTGATGCAACCAAGACAGACAGATC 909  
Db 363 GATGTCATCTCCACCGGTGTGGCCAACTGTCTGCTGTGACCAAGTTGACTGAGGCG 422  
Qy 910 CTGTAAACTGCTGAGGG 928  
Db 423 CTGTGAGCTGCTGCGG 441

## RESULT 14

US-09-810-861B-5  
; Sequence 5, Application US/09810861B  
; Patent No. 6770799

## GENERAL INFORMATION:

APPLICANT: Mor, Tsafir S.  
APPLICANT: Soreq, Helema  
APPLICANT: Arntzen, Charles J.  
APPLICANT: Mason, Hugh S.



;; TITLE OF INVENTION: EXPRESSION OF RECOMBINANT HUMAN ACETYLCHOLINESTERASE IN  
;; FILE REFERENCE: BTI-45  
;; CURRENT APPLICATION NUMBER: US/09/810,861B  
;; PRIOR FILING DATE: 2001-03-16  
;; PRIOR APPLICATION NUMBER: 60/190,440  
;; NUMBER OF SEQ ID NOS: 5  
;; SOFTWARE: PatentIn Ver. 3.1  
;; SEQ ID NO 5  
;; LENGTH: 1725  
;; TYPE: DNA  
;; ORGANISM: Artificial Sequence  
;; FEATURE:  
;; OTHER INFORMATION: Description of Artificial Sequence: synthetic  
;; OTHER INFORMATION: human acetylcholinesterase gene optimized for  
;; OTHER INFORMATION: expression in plants  
US-09-810-861B-5

Query Match 8.5%; Score 148.2; DB 3; Length 1725;  
Best Local Similarity 48.3%; Pred. No. 1.7e-29;  
Matches 680; Conservative 0; Mismatches 693; Indels 36; Gaps 8;

Qy 208 CCCATCCAACTCTTTTAAAGAGTCCCTCTCCAGACCTCTCTAGGTAATCTCAGGTTT 267  
Db 175 CCGTCTCTGCTTCTCTGGGATCCCTTTGGGAGCCACCAATGGACCCCGTCTT 234  
Qy 268 GCACCTTCAGAAACCCCGAGCCCTGGAAAGAAATCAGAAATGTTACATCACTCCGCT 327  
Db 235 CTGCGACCGGAGCCCAAGACGCTTGTGAGGGGTGTAGACGCTTACAACTTCCAAAGT 294  
Qy 328 GGGGAGCTGAGAGGCTCTGGGGGCACTGGCCCTGATACGTACGACAGCGGGGAAACGG 387  
Db 295 GTCTGCTACCAATATGT---GACACCTTATCCCAAGTTTGAAGGGACCGAATGTGG 351  
Qy 388 TACAAGTGGCTGCGCTTCAAGGAGACTGTCTGTACTGTAACTGTAACTGTAACGCGCCGCGC 447  
Db 352 AACCCCAACGCTGAGTGAAGGAGACTGCTGTACTGTAACTGTAACTGTGAACATACCCC 411  
Qy 448 GCGCGCGGGAGTCCCAAGCTGCAATGTGTCTGTTCCCGGAGGCGCTTCAATGTG 507  
Db 412 CGGCG---TACATCCCCACCCCTGTCTCTGTGAACTATAGGGGTGTGCTTTCACAT 468  
Qy 508 GCGCGCTCTTCTT-----GTAAGAGGCTCTGATCTTGGCGCGCGCGGAGAAATGTGTG 561  
Db 469 GGGGCTCTCTCTGTAAGCTGTACATGTAGCGCGCTTCTTGTAGACAGCGCGAGGACTGTG 528  
Qy 562 CTGCTGTTTCTGACGACAGGCTCGGACTTTCGGCTTCTTGAACAGGACGACGAGCC-- 619  
Db 529 CTGCTGTCTCAATGAATCAACGGGTGGAGCTTTGGCTTCCCTGGCCCTGCGGGAGCTGA 588  
Qy 620 -ACGCGCGCGGAACTGGGGGCTGTGTGACCAATGTGCGGCTTTCGCTGGGTGACGAG 678  
Db 589 GAGGCGCCGCGGCAATGTGTGTCTCTGTGATCAGAGGCTGCGCCCTGCAGTGGGTCAAGAG 648  
Qy 679 AACATCGCAAGCTTCTGGGGGAGACCCAGAAATGTGACCTTCTGCGCAATCGCGGGG 738  
Db 649 AACGTGCAAGCTTCTGGGGGAGACCCAGCAATGTGAGCTGTGTTGGGAGAGCGCGGA 708  
Qy 739 GCATGAGCATCTGAGACTGATGTCAACCCCTAGCGCTGGGCTCTTCTCATCTGAGGCC 798  
Db 709 GCGCGCTCGTGGGCAATGCTGTCTGCTCCCGCAGCGGGGCTGTTTCAAGGGCC 768  
Qy 799 ATTTCCAGAGTGG-----CACCGCTTATTCAGACTTTTCACTCACTAATCCCACTG 852  
Db 769 GTGCTGACAGACGGGTGCCCAATGACCTGTGGGCAACGATGGGATGAGAGCCCGT 828  
Qy 853 AAATGTCGCAAGAGTTGCGCACTGTGTGATGCAACCAACAGACAGACAGATCTGTG 912  
Db 829 CGCAGGGCAGAGCTGGCCCACTTGTGGCTGTCTTCCAGGGGCGCATGTGGGAGAT 888  
Qy 913 GTAATGCTGTAGGGCACTATCAAGGACCAAGGTGATGTGTGTCCCAAGATAGGA 972

Db 889 GACACAGAGCTGTAGCTGTGCTTGGACACGACCGCAAGTCTGTGAA----- 941  
Qy 973 TTCTTCACTGAATCTTCCAGAGAGACCGGAAAGATATATGTCTCATAGACCTGTG 1032  
Db 942 --CCAGAAATGGCACTGCTGCTCTCAAGAAAGGTCTTCCGGTCTCTTCCGCTGTG 999  
Qy 1033 GTGATGTGTGTGTATCCCAATGACCTTGTGTCTCTGTGACCAAGGGAAGTTTCA 1092  
Db 1000 GTAGATGAGAACTTCTCTAGTGAACCCCAAGGCTCTCATCAACCGGAGACTTCCAC 1059  
Qy 1093 TCTGTCCCTACTCTTATAGTGTCAACAACCTGGATTCATTTGAGTCTGTCTTATATC 1152  
Db 1060 GCGCTCAGGTGTGTGTGTGTGTGTGAAGATGAGGCTCGATTTTCTGTGTACGGG 1119  
Qy 1153 ATGAAATTCCTCGTAACCGGACGCGATGAGAAAGAAACATCACTAAGATGTCTG 1212  
Db 1120 GCGCCAGGCTTCAAGCAAAAGACAGTCTCTCATAGCGGGCCGAGTTCTGTGCGCGG 1179  
Qy 1213 AGTACCCGACCCCTGTGTAATATCACCAAGACAGGTACCACTGTGTGTGAGAGTAC 1272  
Db 1180 GTGCGGGGTGGGGTTCGCCAGTAAATGACCTGGACGCGAGGCTGTGTCTGTCAATTAC 1239  
Qy 1273 CTGGAATGTCAATGAGACTGTGAGAGATCTACGAAACCTGTATGATGACATAGTT 1332  
Db 1240 ACAGACTGTGCTGATCCCGAGGACCGGCAACGCTGAGGGAGGCTGTAGCGATGTGTG 1299  
Qy 1333 CAAGATGCCACTTTCGTATATGCACTGACAGTGTCTACTACCAACGAGATGCCGC 1392  
Db 1300 GCGGACCAATGTCTGTGTGCTGCTGCGGCTGCTGTGGGACTGTGCTGCCAGGT 1359  
Qy 1393 CTCTGTCTTACTCTGTATGATTAATTTGAGCACACGCTGTGTGAATTAATGTCAACCCGC 1452  
Db 1360 GCGCGGTCTAGGCTCTAGCTTGTGAACACCGTGC---TTCAGGCTCTCTGTGGCTG 1416  
Qy 1453 ACTGATGGGCAACCAATGGGATGAGATTACTTCTCTTTGGGGGCTCTT---CGCC 1509  
Db 1417 TGGATGGGGGTGCGCCACGCTACGATGAGTCACTTGTGGATCCCTCGGACCCC 1476  
Qy 1510 ACAGGCTTTCANGGTAAAGAAAGGCACTTAGCTCCAGATGAAATATGTGGCC 1569  
Db 1477 TCTGAAATTAACGGAGAGAGAAATCTTGCCCAAGCACTGATGCACTACTGGGCC 1536  
Qy 1570 AACTTGGCCCGCACAGGAAACCCCAATGA 1598  
Db 1537 AACTTGGCCCGCACAGGGAATCCCAATGA 1565

RESULT 15  
US-07-732-962A-1  
; Sequence 1, Application US/07732962A  
; Patent No. 5248604  
; GENERAL INFORMATION:  
; APPLICANT: Fischer, Meir  
; TITLE OF INVENTION: EXPRESSION OF ENZYMATICALLY ACTIVE  
; TITLE OF INVENTION: RECOMBINANT HUMAN ACETYLCHOLINESTERASE  
; NUMBER OF SEQUENCES: 2  
; CORRESPONDENCE ADDRESS:  
; ADDRESSEE: John P. White, Esq.  
; STREET: 30 Rockefeller Plaza  
; CITY: New York  
; STATE: New York  
; COUNTRY: USA  
; ZIP: 10112  
; COMPUTER READABLE FORM:  
; MEDIUM TYPE: Floppy disk  
; COMPUTER: IBM PC compatible  
; OPERATING SYSTEM: PC-DOS/MS-DOS  
; SOFTWARE: PatentIn Release #1.0, Version #1.25  
; CURRENT APPLICATION DATA:  
; APPLICATION NUMBER: US/07/732,962A  
; FILING DATE: 19910722  
; CLASSIFICATION: 435  
; ATTORNEY/AGENT INFORMATION:

NAME: White, John P.  
REGISTRATION NUMBER: 28,678  
REFERENCE/DOCKET NUMBER: 39304/JPM/LSW  
TELECOMMUNICATION INFORMATION:  
TELEPHONE: (212) 977-9550  
TELEFAX: (212) 664-0525  
TELEX: 422523 COOP UI  
INFORMATION FOR SEO ID NO: 1:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 1845 base pairs  
TYPE: NUCLEIC ACID  
STRANDEDNESS: single  
TOPOLOGY: linear  
MOLECULE TYPE: DNA (genomic)  
FEATURE:  
NAME/KEY: CDS  
LOCATION: 1..1842  
US-07-732-962A-1

Query Match 8.5%; Score 148.2; DB 2; Length 1845;  
Best Local Similarity 48.3%; Pred. No. 1.7e-29;  
Matches 680; Conservative 0; Mismatches 693; Indels 36; Gaps 8;  
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DB 175 CTTGTCTGCTTTCTCTGAGCATCCCTTTGCGAGCCACCATGGAACCCGCTGCTT 234  
QY 268 GCACTCTCAAGAACCCCGAGCCCTGAAAGATCAGATGCTACCACTTACCCT 327  
DB 235 CTGCCACCGAGACCGCAAGAGCCTTGTGAGGGGTGTAGACGCTACCACTTCCAGAT 294  
QY 328 GGGTCTGCAAGAGTCTCGGGCCAGCTGGCTCATGTAGTACGACGACCGGGAAACGG 387  
DB 295 GTCTGTACCAATATGT---GACACCTTATACCGAGTTTGAAGGCAACGAGATGTG 351  
QY 388 TACAAGTGTGCTGGCTTCAAGAGAGCTGTCTGTACTGTAACTGTAAACGCGCGCGC 447  
DB 352 AACCCCAACCGTAGAGCTGAGCAGAGACTGCTGTACTGTAACTGTGTAGACACATACCC 411  
QY 448 GCGCCCGGGAGATCCCAAGCTGCAATGTGTGTGTTCCGGAGAGCGCTTCACTGTG 507  
DB 412 CGGCG---TACATCCCAACCCCTGTCTGTGTGATCTATGGGGGTGGCTTTCAGAT 468  
QY 508 GCGCTGCTTCTT-----CTTACAGAGGCTCTGATCTTGGCCGCCGCGAAGAAATGTG 561  
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QY 1393 CTCCCTGTCTACTGTATGAATTTAGAGACCAACGCTCGTGTGAATTAATGTCAACCCGC 1452  
DB 1360 GCGCGGCTTACGCTTACGCTTGTGAACACCGTGC---TTCACGCTCTCTGCGCCCTG 1416  
QY 1453 ACTGATGGGCAAGACCATGAGATGAGATGTACTTCTTGTGGGGCCCTT---CGCC 1509  
DB 1417 TGGAATGGGGTGGCCCAAGCTGACAGATGAGTTTCTTTGGGATCCCTCGAACCC 1476  
QY 1510 ACAGGCTTTTCCATGGGTGAAGAGAGCACTTAACCTTCAGATGATGAATTAATGAGGC 1569  
DB 1477 TCTGAATCTACACGAGAGAGAAATCTTCCGCGACGACTGATGATATGAGGCC 1536  
QY 1570 AACTTTGCCCCGACAGAGAAACCCCAATGA 1598  
DB 1537 AACTTGGCCGACAGGGGATCCCAATGA 1565

Search completed: December 29, 2005, 03:28:28  
Job time : 365 secs

GenCore version 5.1.6  
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OM protein - protein search, using sw model

Run on: December 27, 2005, 20:11:29 ; Search time 45 Seconds  
(without alignments)  
1072.947 Million cell updates/sec

Title: US-10-001-227-2  
Perfect score: 3112  
Sequence: 1 MPTVLPSTVLPSTLPSTAG.....KMAFWMSLYGSRPEKGRQF 584

Scoring table: BLOSUM62  
Gapop 10.0 , Gapext 0.5

Searched: 572060 seqs, 82675679 residues

Total number of hits satisfying chosen parameters: 572060

Minimum DB seq length: 0  
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%  
Maximum Match 100%  
Listing first 45 summaries

Database : Issued Patents AA:\*  
1: /cgn2\_6/prodata/1/1aa/5 COMB.pep:\*  
2: /cgn2\_6/prodata/1/1aa/6 COMB.pep:\*  
3: /cgn2\_6/prodata/1/1aa/7 COMB.pep:\*  
4: /cgn2\_6/prodata/1/1aa/8 COMB.pep:\*  
5: /cgn2\_6/prodata/1/1aa/9 COMB.pep:\*  
6: /cgn2\_6/prodata/1/1aa/10 COMB.pep:\*  
Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2026.5	65.1	545	2	US-09-999-833A-254
2	2026.5	65.1	545	2	US-10-020-445A-254
3	1266.5	40.7	566	2	US-10-049-113A-1
4	1260	40.5	565	2	US-09-595-682B-21
5	1251.5	40.2	566	2	US-09-264-737-2
6	1230	39.5	543	2	US-09-595-682B-26
7	1169.5	37.6	584	1	US-08-845-295A-2
8	1169.5	37.6	584	2	US-09-140-933-2
9	1169.5	37.6	584	2	US-09-146-661-2
10	1169.5	37.6	584	2	US-09-150-515-2
11	1145	36.8	581	2	US-10-023-515-2
12	1133	36.4	539	2	US-09-264-737-1
13	1083	34.8	559	2	US-09-595-682B-28
14	1083	34.8	559	2	US-09-949-016-6426
15	1083	34.8	577	2	US-10-019-219-7
16	1083	34.8	577	2	US-09-949-016-9670
17	983.5	31.6	454	2	US-08-446-100-26
18	983.5	31.6	454	2	US-08-446-100-30
19	983.5	31.6	454	2	US-08-446-100-31
20	981.5	31.5	454	2	US-08-446-100-27
21	977.5	31.4	454	2	US-08-446-100-28
22	977.5	31.4	454	2	US-08-446-100-29
23	956	30.7	469	2	US-10-104-047-2219
24	908.5	29.2	574	2	US-10-023-515-4
25	849	27.3	836	2	US-09-491-356C-21
26	831	26.7	848	2	US-09-491-356C-22
27	824.5	26.5	933	2	US-09-949-016-8386

28	820.5	26.4	823	2	US-09-491-356C-23	Sequence 23, Appl
29	820.5	26.4	953	2	US-09-949-016-8387	Sequence 8387, Ap
30	796	25.6	823	2	US-09-949-016-6888	Sequence 6888, Ap
31	788	25.3	843	2	US-09-491-356C-20	Sequence 20, Appl
32	787.5	25.3	617	1	US-08-370-156-6	Sequence 6, Appl
33	787.5	25.3	617	2	US-08-814-095-6	Sequence 6, Appl
34	787	25.3	600	1	US-08-370-156-4	Sequence 4, Appl
35	787	25.3	600	2	US-08-814-095-4	Sequence 4, Appl
36	787	25.3	600	2	US-08-975-084-1	Sequence 1, Appl
37	787	25.3	614	1	US-07-732-962A-2	Sequence 2, Appl
38	787	25.3	614	1	US-08-370-156-2	Sequence 2, Appl
39	787	25.3	614	2	US-08-446-100-19	Sequence 19, Appl
40	787	25.3	614	2	US-08-814-095-2	Sequence 2, Appl
41	787	25.3	614	4	PCT-US92-06106-2	Sequence 2, Appl
42	787	25.3	645	2	US-09-949-016-7063	Sequence 7063, Ap
43	787	25.3	645	2	US-09-949-016-7064	Sequence 7064, Ap
44	786	25.3	614	2	US-08-446-100-21	Sequence 21, Appl
45	785	25.2	614	2	US-08-446-100-20	Sequence 20, Appl

ALIGNMENTS

RESULT 1  
US-09-999-833A-254  
; Sequence 254, Application US/09999833A  
; Patent No. 6916648  
; GENERAL INFORMATION:  
; APPLICANT: Ashkenazi, Avi  
; APPLICANT: Baker Kevin P.  
; APPLICANT: Botstein, David  
; APPLICANT: Desnoyers, Luc  
; APPLICANT: Baton, Dan  
; APPLICANT: Ferrara, Napoleon  
; APPLICANT: Filvaroff, Ellen  
; APPLICANT: Fong, Sherman  
; APPLICANT: Gao, Wei-Qiang  
; APPLICANT: Gerber, Hanspeter  
; APPLICANT: Gerltzen, Mary E.  
; APPLICANT: Goddard, Audrey  
; APPLICANT: Godowski, Paul J.  
; APPLICANT: Grimaldi, J. Christopher  
; APPLICANT: Gurney, Austin L.  
; APPLICANT: Hillan, Kenneth J.  
; APPLICANT: Kijavini, Ivar J.  
; APPLICANT: Kuo, Sophia S.  
; APPLICANT: Napier, Mary A.  
; APPLICANT: Pan, James  
; APPLICANT: Paoni, Nicholas F.  
; APPLICANT: Roy, Margaret Ann  
; APPLICANT: Shelton, David L.  
; APPLICANT: Stewart, Timothy A.  
; APPLICANT: Tumas, Daniel  
; APPLICANT: Williams, P. Mickey  
; APPLICANT: Wood, William I.  
; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
; FILE REFERENCE: P2630PIC65  
; CURRENT APPLICATION NUMBER: US/09/999,833A  
; PRIOR FILING DATE: 2001-10-24  
; PRIOR APPLICATION NUMBER: 09/918585  
; PRIOR FILING DATE: 2001-07-30  
; PRIOR APPLICATION NUMBER: 60/062250  
; PRIOR FILING DATE: 1997-10-17  
; PRIOR APPLICATION NUMBER: 60/064249  
; PRIOR FILING DATE: 1997-11-03  
; PRIOR APPLICATION NUMBER: 60/065311  
; PRIOR FILING DATE: 1997-11-13  
; PRIOR APPLICATION NUMBER: 60/06364  
; PRIOR FILING DATE: 1997-11-21  
; PRIOR APPLICATION NUMBER: 60/077450  
; PRIOR FILING DATE: 1998-03-10  
; PRIOR APPLICATION NUMBER: 60/077632



; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085573  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085704  
 ; PRIOR FILING DATE: 1998-05-15  
 ; PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 2; Length 545;  
 Best Local Similarity 80.3%; Pred. No. 8.3e-199;  
 Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

QY 6 LPSTVLPSPILPTAGAGMSNRWILCWSLTCLMAQALGALHTRKQVYTKYGLQKQKH 65  
 DB 47 LGSTSPATSPSSGFTGLFGSKRATGFTLGTNTGALHTRKQVYTKYGLQKQKH 106  
 QY 66 VKTPIQVPLGVFPSPPLGILRFAPPEPPEPWKGRDATTYPRG----- 110  
 DB 107 VKTPIQVPLGVFPSPPLGILRFAPPEPPEPWKGRDATTYPRGWSLALSPGMSAVARS 166  
 QY 111 -----CLOBSWGLASMYSTRERYKWLRFSDCLYANY 145  
 DB 167 RLTPASASRVQASLFPQPLSVWGYRCLQBSWGLASMYSTRERYKWLRFSDCLYANY 226  
 QY 146 APARAAGDPQPLPVMWFPAGAPFVGAASSYEGSDLAAREKVVLPLOHRLGIFGFLSTD 205  
 DB 227 APARAAGDPQPLPVMWFPAGAPFVGAASSYEGSDLAAREKVVLPLOHRLGIFGFLSTD 286  
 QY 206 SHARGNWGLDDQMAALRWQENIAAFGSDPGVNTLFGQSNAGMSISGLMSPLASGLFHR 265  
 DB 287 SHARGNWGLDDQMAALRWQENIAAFGSDPGVNTLFGQSNAGMSISGLMSPLASGLFHR 346  
 QY 266 AISQSTALPRLFTSNPLKNAKVHLAGCNNSQIIVNCLRALSGTKWMSKMF 325  
 DB 347 AISQSTALPRLFTSNPLKNAKVHLAGCNNSQIIVNCLRALSGTKWMSKMF 406  
 QY 326 LQANFORDBEIWSNPSVVDGVIPDDPLVLLTQKVSVPPLGNNLEFNMFLPYIM 385  
 DB 407 LQANFORDBEIWSNPSVVDGVIPDDPLVLLTQKVSVPPLGNNLEFNMFLPY-- 464  
 QY 386 KEPLNRQNRKETITMKNSTRLNITKEQVPLVVEEYLDNVNEHDMKLRNMDIYQ 445  
 DB 465 -----NITKEQVPLVVEEYLDNVNEHDMKLRNMDIYQ 499  
 QY 446 DATEVYATLQTAHYHRD 462  
 DB 500 DATEVYATLQTAHYHRB 516

RESULT 2  
 US-10-020-445A-254  
 ; Sequence 254, Application US/10020445A  
 ; Patent No. 6962797  
 ; GENERAL INFORMATION:  
 ; APPLICANT: Ashkenazi, Avi  
 ; APPLICANT: Baker Kevin P.  
 ; APPLICANT: Botstein, David  
 ; APPLICANT: Desnoyers, Luc  
 ; APPLICANT: Eaton, Dan  
 ; APPLICANT: Ferrara, Napoleon  
 ; APPLICANT: Filvaroff, Ellen  
 ; APPLICANT: Fong, Sherman  
 ; APPLICANT: Gao, Wei-Qiang  
 ; APPLICANT: Gerber, Hanspeter  
 ; APPLICANT: Gerltzen, Mary E.  
 ; APPLICANT: Goddard, Audrey  
 ; APPLICANT: Godowski, Paul J.  
 ; APPLICANT: Grimaldi, J. Christopher  
 ; APPLICANT: Gurney, Austin L.  
 ; APPLICANT: Hillan, Kenneth J.  
 ; APPLICANT: Kijavlin, Ivar J.  
 ; APPLICANT: Kuo, Sophia S.  
 ; APPLICANT: Napier, Mary A.  
 ; APPLICANT: Pan, James;

; APPLICANT: Paoni, Nicholas F.  
 ; APPLICANT: Roy, Margaret Ann  
 ; APPLICANT: Shelton, David L.  
 ; APPLICANT: Stewart, Timothy A.  
 ; APPLICANT: Tumas, Daniel  
 ; APPLICANT: Williams, P. Mickey  
 ; APPLICANT: Wood, William I.  
 ; TITLE OF INVENTION: Secreted and Transmembrane Polypeptides and Nucleic  
 ; TITLE OF INVENTION: Acids Encoding the Same  
 ; FILE REFERENCE: P2630P1C74  
 ; CURRENT APPLICATION NUMBER: US/10/020.445A  
 ; PRIOR FILING DATE: 2001-10-24  
 ; PRIOR APPLICATION NUMBER: 09/918585  
 ; PRIOR FILING DATE: 2001-07-30  
 ; PRIOR APPLICATION NUMBER: 60/062250  
 ; PRIOR FILING DATE: 1997-10-17  
 ; PRIOR APPLICATION NUMBER: 60/064249  
 ; PRIOR FILING DATE: 1997-11-03  
 ; PRIOR APPLICATION NUMBER: 60/065311  
 ; PRIOR FILING DATE: 1997-11-13  
 ; PRIOR APPLICATION NUMBER: 60/063664  
 ; PRIOR FILING DATE: 1997-11-21  
 ; PRIOR APPLICATION NUMBER: 60/074450  
 ; PRIOR FILING DATE: 1998-03-10  
 ; PRIOR APPLICATION NUMBER: 60/076332  
 ; PRIOR FILING DATE: 1998-03-11  
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PRIOR FILING DATE: 1998-04-22  
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PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082797  
PRIOR FILING DATE: 1998-04-22  
PRIOR APPLICATION NUMBER: 60/082796  
PRIOR FILING DATE: 1998-04-23  
PRIOR APPLICATION NUMBER: 60/083336  
PRIOR FILING DATE: 1998-04-27  
PRIOR APPLICATION NUMBER: 60/083322  
PRIOR FILING DATE: 1998-04-28  
PRIOR APPLICATION NUMBER: 60/083392  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083495  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083496  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083499  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083545  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083554  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083558  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083559  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083500  
PRIOR FILING DATE: 1998-04-29  
PRIOR APPLICATION NUMBER: 60/083742  
PRIOR FILING DATE: 1998-04-30  
PRIOR APPLICATION NUMBER: 60/08366  
PRIOR FILING DATE: 1998-05-05  
PRIOR APPLICATION NUMBER: 60/084414  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/084441  
PRIOR FILING DATE: 1998-05-06  
PRIOR APPLICATION NUMBER: 60/084637  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084639  
PRIOR FILING DATE: 1998-05-07

PRIOR APPLICATION NUMBER: 60/084640  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084598  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084600  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084627  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/084643  
PRIOR FILING DATE: 1998-05-07  
PRIOR APPLICATION NUMBER: 60/085339  
PRIOR FILING DATE: 1998-05-13  
PRIOR APPLICATION NUMBER: 60/085338  
PRIOR FILING DATE: 1998-05-13  
PRIOR APPLICATION NUMBER: 60/085323  
PRIOR FILING DATE: 1998-05-13  
PRIOR APPLICATION NUMBER: 60/085582  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085700  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085689  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085579  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085580  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085573  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085704  
PRIOR FILING DATE: 1998-05-15  
PRIOR APPLICATION NUMBER: 60/085697

Query Match 65.1%; Score 2026.5; DB 2; length 545;  
Best Local Similarity 80.3%; Pred. No. 8.3e-199;  
Matches 399; Conservative 5; Mismatches 26; Indels 67; Gaps 2;

6 LPSTVPSLPTGAGSMRWILCWSLITCLMAOTALGAHTKPOVVTYKGTLOGKOH 65  
47 LGSTSTPATTSAPSSGSGTGLFGSKPATGPTLGITNGALHTKRPQVVTYKGTLOGKOH 106  
66 VGTKPIOVFLGVPSRPRGLILRFAPEPEPKGIRDATYPRG----- 110  
107 VGTKPIOVFLGVPSRPRGLILRFAPEPEPKGIRDATYPRGSLALSPGSAVARS 166  
111 -----CLOBSWQGLASNYSTRERYKVLRFSEDCLYLVY 145  
167 RLRTASASRYQASLLPQLPSVWGVRCLQBSWQGLASNYSTRERYKVLRFSEDCLYLVY 226  
146 APARAPDDPOLPMVWFGCAFIVGAASSYEGSDLAAREKVVLPLOHRLIGFPLSTD 205  
227 APARAPDDPOLPMVWFGCAFIVGAASSYEGSDLAAREKVVLPLOHRLIGFPLSTD 286  
206 SHARGMWGLDDQAAALRWQENIAAFGGDGGNTLFGOSAGAMSISGLMNSPLASGLFHR 265  
287 SHARGMWGLDDQAAALRWQENIAAFGGDGGNTLFGOSAGAMSISGLMNSPLASGLFHR 346  
266 AISOSGTALFRLFTSNPLKVAKKVAHLAGCNHNSOILVNCRLASGTCVMEVSNMRF 325  
347 AISOSGTALFRLFTSNPLKVAKKVAHLAGCNHNSOILVNCRLASGTCVMEVSNMRF 406  
326 LQANFQBDPREITWSSPVVDGVYITDDPLVLLTQGVSSVPLLGVNNLEFWMLPYIM 385  
407 LQANFQBDPREITWSSPVVDGVYITDDPLVLLTQGVSSVPLLGVNNLEFWMLPYIM 464  
386 KPLINQAMRKETITGLMSTRLLNITKQOVLLVVEYLDNNNEHDMKRLRRMDIVQ 445  
465 -----NITKQOVLLVVEYLDNNNEHDMKRLRRMDIVQ 499  
446 DATEVYATLOTATYHRD 462  
500 DATEVYATLOTATYHRE 516  
Db



RESULT 3

US-10-049-113A-1

Sequence 1, Application US/10049113A  
 Patent No. 6861233  
 GENERAL INFORMATION:  
 APPLICANT: Glaxo Group Limited  
 APPLICANT: Governors of the University of Alberta  
 APPLICANT: Borg-Capra, Catherine S  
 APPLICANT: Lehner, Richard J  
 APPLICANT: Vance, Dennis B  
 TITLE OF INVENTION: Method of screening for triacylglycerol hydrolase  
 TITLE OF INVENTION: Inhibitors  
 FILE REFERENCE: PH3740  
 CURRENT APPLICATION NUMBER: US/10/049,113A  
 PRIOR FILING DATE: 2002-08-08  
 PRIOR APPLICATION NUMBER: GB 9920334.1  
 NUMBER OF SEQ ID NOS: 7  
 SOFTWARE: PatentIn Ver. 2.1  
 SEQ ID NO 1  
 LENGTH: 566  
 TYPE: PRT  
 ORGANISM: Homo sapiens  
 US-10-049-113A-1

Query Match 40.7%; Score 1266.5; DB 2; Length 566;

Best Local Similarity 44.5%; Pred. No. 9.8e-121; Indels 11; Gaps 8;

Matches 251; Conservative 110; Mismatches 192

26 WILCWSLTCLMAQTALGALHTKRPQV--TKYGTLOGK--OMHVGTPIQVFLGVFSPRP 82  
 2 WIRAFILA-TLSAAMWG--HPSPPVVDVTHGKVLGKVSLEGFAPVAFILGIPFGP 58  
 83 PLGILRPAPEPEPEPKGIRDAITTPGCLQF--SWQSLAMTVSTREKYMRLFSFSDCLY 141  
 59 PLGPRRFTPEPQAPSPWSPVKNATSYPPMCTODPKAGQLSELFTNKENIPIKLSFSDCLY 118  
 142 LNVYAPARAPGDPQLPVWVWFPFGAFIVGASSEGSDDLAREKYLVLQHRILGIFGL 201  
 119 LNIYTPADLTCKNRRLVWVWVHGGGLMVGASTYDGLALAHENVVVITQIRLGIWGF 178  
 202 STDDSHARGNGLDQMAALRWQENIAAFGDPGNVTLFGOSAGAMSISGLMSPPLASG 261  
 179 STGDHSRGNMGLDQVALRWQDNIASFGRNPGSVITFGESAGGESVYVLSPILAN 238  
 262 LFRRAISQGTALFRLFTSNPIK--VAKVVAHLAGCNHNSSTOILVNCRLSGTKMRYVS 320  
 239 LFRRAISEGVALTSTVLYKKGDVYPLAEQIATPAGCKTTTSAVMVACHLRQTEEBELFTT 298  
 321 NKRRFQLNFPQDPBETISMSPVVDGVIPDDPLVLTQGVKSVYPLLGUNNEFNNL 380  
 299 LRRKFLSLDQGGPDRSQPLGLTVIDGMLLKTPEELQARNFHTVPYVWGINKQSFGL 358  
 381 LRYIMKFPINRQMKREITTKMLSTRLLNTTKEQOVPLVVEEYLNVNNEHDKMLRNM 440  
 359 IRLMWSYPLSEGLDQKTMSLMKSYPVLCIAKELLPRATEKYLGGTD--DIVKKKDLF 416  
 441 MDIVQATFYVATLQTAHYRDAGLPLYLYEFENH--ARGIIVKPRTDGADHDGEMTFLFG 499  
 417 LDIILAVMRFQVPSVIVARNRDAGAPTYMEFQYRSFSSDMKPKVTIVIGHGDBELFSVFG 476  
 500 GPATGLSMGKEKALSLQMKYMANPARTGNPDGNLPCWPRYNNQDEKYLQDLFTTRVGM 559  
 477 APPLKSGASSEERLRLSMVMKFPANRKNPNGBGLPHMPEYNNQEGYLIQIGANTQAGQ 536  
 560 KLKKEKMAFWMSLYOSQRPKORQ 583  
 537 KLKKEKMAFWMTNLPAKKAVERKPPQ 560

RESULT 4  
 US-09-595-682B-21  
 Sequence 21, Application US/09595682B

Patent No. 6800483

GENERAL INFORMATION:  
 APPLICANT: Danks, Mary K.  
 APPLICANT: Poter, Philip M.  
 APPLICANT: Houghton, Peter J.  
 TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth of  
 TITLE OF INVENTION: Tumor Cells  
 FILE REFERENCE: SJ-0005  
 CURRENT APPLICATION NUMBER: US/09/595,682B  
 CURRENT FILING DATE: 2000-01-16  
 PRIOR APPLICATION NUMBER: 60/075,258  
 PRIOR FILING DATE: 1998-02-19  
 PRIOR APPLICATION NUMBER: PCT/US99/03171  
 PRIOR FILING DATE: 1999-02-12  
 NUMBER OF SEQ ID NOS: 30  
 SOFTWARE: PatentIn Ver. 2.0  
 SEQ ID NO 21  
 LENGTH: 565  
 TYPE: PRT  
 ORGANISM: Oryctolagus cuniculus  
 US-09-595-682B-21

Query Match 40.5%; Score 1260; DB 2; Length 565;

Best Local Similarity 43.8%; Pred. No. 4.6e-120; Indels 16; Gaps 9;

Matches 245; Conservative 119; Mismatches 180

34 LCLMAQTALGAL---HTKRPQV--TKYGTLOGK--OMHVGTPIQVFLGVFSPRP 86  
 3 LCLALASLACTAMGHSAPRPVVDVTHGKVLGKVSLEGFAPVAFILGIPFGP 62  
 87 LRFAPPEPEPEPKGIRDAITTPGCLQF--SWQSLAMTVSTREKYMRLFSFSDCLY 144  
 63 LRFAPPEPEPEPKGIRDAITTPGCLQF--SWQSLAMTVSTREKYMRLFSFSDCLY 121  
 145 YAPARAPGDPQLPVWVWFPFGAFIVGASSEGSDDLAREKYLVLQHRILGIFGL 204  
 122 YTPADLTCKNRRLVWVWVHGGGLMVGASTYDGLALAHENVVVITQIRLGIWGF 181  
 205 DSHARGNGLDQMAALRWQENIAAFGDPGNVTLFGOSAGAMSISGLMSPPLASG 264  
 182 DSHRGNMGLDQVALRWQDNIASFGRNPGSVITFGESAGGESVYVLSPILAN 241  
 265 RAISQGTALFRLFTSNPIK--VAKVVAHLAGCNHNSSTOILVNCRLSGTKMRYVS 324  
 242 RAISQGTALFRLFTSNPIK--VAKVVAHLAGCNHNSSTOILVNCRLSGTKMRYVS 301  
 325 FLQNFQDPBETIISMSPVVDGVIPDDPLVLTQGVKSVYPLLGUNNEFNNL 383  
 302 FVALDVGDPKENTAFILFTVIDGVLLPKAFABIIAEKKNMLPYWGINQOEFGL 361  
 384 IKKFPINRQMKREITTKMLSTRLLNTTKEQOVPLVVEEYLNVNNEHDKMLRNM 443  
 362 MLGYPLESEGLDQKTMMLSTRLLNTTKEQOVPLVVEEYLNVNNEHDKMLRNM 419  
 444 VQATFYVATLQTAHYRDAGLPLYLYEFENH--ARGIIVKPRTDGADHDGEMTFLFG 502  
 420 LADLFGVSVVAVAHHRDAGAPTYMEFQYRSFSSDMKPKVTIVIGHGDBELFSV 479  
 503 ATGLSMGKEKALSLQMKYMANPARTGNPDGNLPCWPRYNNQDEKYLQDLFTTRVGM 562  
 480 LKEGATEEERIKLSKVMKMANFARNGNPNGBGLPHMPEYNNQEGYLIQIGANTQAG 539  
 563 EKKMAFWMSLY--OSQRPKORQ 580  
 540 DKKMAFWMTNLPAKKAVERKPPQ 559

RESULT 5  
 US-09-264-737-2  
 Sequence 2, Application US/09264737A  
 Patent No. 6107549  
 GENERAL INFORMATION:  
 APPLICANT: Feng, Paul C.C.

```

; APPLICANT: Ruff, Thomas G.
; TITLE OF INVENTION: Engineering Plant Resistance to Pyridines via
; FILE REFERENCE: Expression of Esterase Enzymes
; CURRENT FILING DATE: 1998-02-19
; PRIOR APPLICATION NUMBER: PCT/US99/03171
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Oryctolagus cuniculus
US-09-595-682B-26

Query Match      40.2%; Score 1251.5; DB 2; Length 566;
Best Local Similarity 43.7%; Pred. No. 3.4e-119;
Matches 248; Conservative 117; Mismatches 175; Indels 27; Gaps 11;

Qy 28 LCWSLTICLAQTLGALHTKRPQVYTKYGLQKQMHVK-----TPIQVFLGVFP 79
Db 7 LVM---LFLAAGTAMG--HESAPRV--DIVKGVV--GKPVSLBGRADPVAVFLGVFP 56
Qy 80 SRPPLGILRFAPRPPEPMPKGIIRDATTYPPGCLQE--SWQGLAMVYSTERYKMLRFS 137
Db 57 AKRPLSLRFRPAPASWSHVNKTTISYPMCSQDAVSGHMLSELFTNRKENIP-LKFS 115
Qy 138 DCLYLYNAPARABDQPLPVWVFPGGAFTVGAASVYSGSDLAARKVVLVFLQHRIGI 197
Db 116 DCLYLYNAPARABDQPLPVWVFPGGAFTVGAASVYSGSDLAARKVVLVFLQHRIGI 175
Qy 198 RGFISTDSDHARKGWSGLDDQALRWQENIAAFGDPGVNTLFGQAGAMISGLMSP 257
Db 176 WGFSTDSDBSRGWSGLDDQALRWQENIAAFGDPGVNTLFGQAGAMISGLMSP 235
Qy 258 LASGLFRRAISQSGTALFRLPITSNPLKAKVVAHLACNHNSTQILVNCIRALSGTKM 317
Db 236 LTRKLPFRRAISQSGTALFRLPITSNPLKAKVVAHLACNHNSTQILVNCIRALSGTKM 295
Qy 318 RVSNRMPFLQINFGDPEEIIWMSPVVDGVVDPDLVLLTQGVSVVPLGNNLEF 377
Db 296 EVTLKMFEMALDVGDDPEENAPFLTVYIDGLPKAPAEILAEKKNMLPVMGINDOEF 355
Qy 378 NWLLP-YIMKPLRQAMRKETITKMLSTRTLLNTKEQVPLVEEYLDNVNHDMMKL 436
Db 356 GMIIPMQLGPISEGLDQKTATELTKSPYIVNISKELTPVATEKYLGGTDPVKK-- 413
Qy 437 RNRMDIVODATFYATLQTAHYHRDAGLPVLYLFEFHH-ARGIIVKPRTDGADHDEM 495
Db 414 KDLFLMDLADLLFQVPSVNAARHRDAGAPTYMEYRPSFSDMKPKTYIGHGBEIF 473
Qy 496 FLFGPPATGLSMGKERALSLOMKKYANFARTGNPNDGMLPCPRYNKDEKYLQDLFTT 555
Db 474 SYLGAPFLKSGATEEETIKLSQVWKYANFARNGNPNGBGLPQMPADYKGYLQIGATT 533
Qy 556 RVGKMLKSKKMAFMSTLY--OSQRPK 580
Db 534 QAAQKLDKEVAFTWELMAKEAARPRE 560

RESULT 6
US-09-595-682B-26
; Sequence 26, Application US/09595682B
; Patent No. 6800483
; GENERAL INFORMATION:
; APPLICANT: Danks, Mary K.
; APPLICANT: Potter, Philip M.
; APPLICANT: Houghton, Peter J.
; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth of
; FILE REFERENCE: Tumor Cells
; FILE REFERENCE: SJ-0005
; CURRENT APPLICATION NUMBER: US/09/595,682B
```

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; CURRENT FILING DATE: 2000-01-15
; PRIOR APPLICATION NUMBER: 60/075,258
; PRIOR FILING DATE: 1998-02-19
; PRIOR APPLICATION NUMBER: PCT/US99/03171
; PRIOR FILING DATE: 1999-02-12
; NUMBER OF SEQ ID NOS: 30
; SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 26
; LENGTH: 543
; TYPE: PRT
; ORGANISM: Oryctolagus cuniculus
US-09-595-682B-26

Query Match      39.5%; Score 1230; DB 2; Length 543;
Best Local Similarity 43.9%; Pred. No. 5.1e-117;
Matches 239; Conservative 115; Mismatches 176; Indels 14; Gaps 8;

Qy 34 LCMAAGTALGAL----HTKRPQVY-TKYGTGLQK--QMHVGTPIQVFLGVFPSPRLGI 86
Db 3 LCALALASLAACTAMGHPAPVVDVTHGKVLGKFSVLEBPADPVAVFLGVFPKAPLGS 62
Qy 87 LRFAPRPPEPMPKGIIRDATTYPPGCLQE--SWQGLAMVYSTERYKMLRFSBDCLYLV 144
Db 63 LRFAPRPASWSHVNKTTISYPMCSQDAVSGHMLSELFTNRKENIP-LKFSBDCLYLV 121
Qy 145 YAPARABDQPLPVWVFPGGAFTVGAASVYSGSDLAARKVVLVFLQHRIGIFGLSTD 204
Db 122 YTPADLTQRRLPVMVWVHGGGLMVGASVYDGLALSAHNVVVVITQYRLGIGWGFSTG 181
Qy 205 DSHARGWSGLDDQALRWQENIAAFGDPGVNTLFGQAGAMISGLMSPPLASGLFPH 264
Db 182 DSHARGWSGLDDQALRWQENIAAFGDPGVNTLFGQAGAMISGLMSPPLASGLFPH 241
Qy 265 RAISQSGTALFRLPITSNPLKAKVVAHLACNHNSTQILVNCIRALSGTKVRSNKM 324
Db 242 RAISQSGTALFRLPITSNPLKAKVVAHLACNHNSTQILVNCIRALSGTKVRSNKM 301
Qy 325 FLQINFGDPEEIIWMSPVVDGVVDPDLVLLTQGVSVVPLGNNLEFNNLLP-Y 383
Db 302 FMAIDLVGDKENYAFLTIVYIDGLPKAPAEILAEKKNMLPVMGINDOEFMIIPMQ 361
Qy 384 IMKPLRQAMRKETITKMLSTRTLLNTKEQVPLVEEYLDNVNHDMMKLNRNMDI 443
Db 362 MDGPISEGLDQKTATELTKSPYIVNISKELTPVATEKYLGGTDPVKK--KDLFLDM 419
Qy 444 VODATFYATLQTAHYHRDAGLPVLYLFEFHH-ARGIIVKPRTDGADHDEMFLFGPP 502
Db 420 LADLLFQVPSVNAARHRDAGAPTYMEYRPSFSDMKPKTYIGHGBEIFSVLGAPF 479
Qy 503 ATGLSMGKERALSLOMKKYANFARTGNPNDGMLPCPRYNKDEKYLQDLFTTRVGMK 562
Db 480 LKEGATEEETIKLSQVWKYANFARNGNPNGBGLPQMPADYKGYLQIGATTQAAQK 539
Qy 563 EKKN 566
Db 540 DKEY 543

RESULT 7
US-08-845-295A-2
; Sequence 2, Application US/08845295A
; Patent No. 5817490
; GENERAL INFORMATION:
; APPLICANT: Hubbs, John C.
; TITLE OF INVENTION: Enzymatic Process for the Manufacture of
; FILE REFERENCE: Ascorbic Acid, 2-Keto-L-Gulonic Acid
; NUMBER OF SEQUENCES: 3
; CORRESPONDENCE ADDRESS:
; ADDRESSER: Eastman Chemical Company
; STREET: P.O. Box 511
; CITY: Kingsport
; STATE: Tennessee
```



QY 369 LLAGNNLEFNNMLPYIKKFPPLNROAMKETTITKMLNSTRTILNTKQVPLV--VEEYLD 426  
DB 359 IVGINKEBFGLPLTMNGFPLSEKLDQKTATSLMKSYPIANIPEELTVATFTDKYL 418  
QY 427 NVNEHDKMLRNMMDIVODATFYVATLQTAYHRDAGLPVLYEFBHH--ARGIIVKP 483  
DB 419 GTDDPVKK--KDLFLDLMGDVFCVPSVTVARQHRDAGAPTYMYEFQYRPSFSDKFTKP 476  
QY 484 RTDGAHDGDEMYFLFGGPFATGLSMGKSKALSLQMKYMANFARTGNPDGNLPCW--R 541  
DB 477 KTVIGDGHDEIFSVGFPLKGDAPPEEVSLSKTVMKFMANFASGNPNBEGLPHPMPTM 536  
QY 542 YNNDEKYLQDFTTRVGMKLEKKGMAPFMSLYOSORPEK 580  
DB 537 YDQEGYLGIVNTQAARKLKGEEVAFMNDLSKEAAKK 575

RESULT 9  
US-09-146-661-2  
Sequence 2, Application US/09146661  
Patent No. 6136575  
GENERAL INFORMATION:  
APPLICANT: Hubbs, John C.  
TITLE OF INVENTION: Bzymatic Process for the Manufacture of  
TITLE OF INVENTION: Ascorbic Acid, 2-Keto-L-Gulonic Acid, and Esters of 2-Keto-L-Gu  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESS: Eastman Chemical Company  
STREET: P.O. Box 511  
CITY: Kingsport  
STATE: Tennessee  
COUNTRY: USA  
ZIP: 37662-5075  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch disk  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: Microsoft Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/146,661  
FILING DATE: 03-September-98  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/017,879; 08/845,295  
FILING DATE: 17-May-96; 25-April-97  
ATTORNEY/AGENT INFORMATION:  
NAME: Cheryl J. Tubach  
REGISTRATION NUMBER: 38,346  
TELEPHONE: 423-229-6189  
TELEFAX: 423-229-1239  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 584 amino acids  
TYPE: Amino Acid  
TOPOLOGY: Linear  
MOLECULAR TYPE: protein  
US-09-146-661-2

Query Match 37.6%; Score 1169.5; DB 2; Length 584;  
Best Local Similarity 43.0%; Pred. No. 9,5e-11;  
Matches 249; Conservative 108; Mismatches 193; Indels 29; Gaps 13;

QY 26 WILCMSTLTLCAAGTALGALHTKRPQV--TKYGLTGKQMHV---KTPIQVFLGVPFS 80  
DB 2 WLL--PLVLTSLASATYAGPASPVPVDITQGRVLTGTYVSLBGLATFQPAVFLGVPFA 59  
QY 81 RPPGLIRFAPBPBPBPWKIGIRDATYPPGCLQSGWGLASMYST---NERYKMLRFS 136  
DB 60 KPIFGSLRFAPBPBPBPWPSFYKNTTSYVPMCCQDPVVGQMTSDLFTNTGKERLT--LEFS 118

QY 137 EDCIYIANVYAPAPAGDPDQPLPVWVWPPGCAFYGAASSTYEGSDLAAREK--VVLVPLQHR 194  
DB 119 EDCIYIANVYAPALUTKRGRLPVWVWINGGLVYGAPMYGVVLAHNEFTVVVAIOYR 178  
QY 195 LGI FGLSTDSHARGNMGLLDDMAALRWYOENIAAFGDPGNVTLFGQS--AGAMSISG 252  
DB 179 LGIWFGSTDEHSKRGNGHLDVYALHVOENIANFGDPGSGTITIGESFTAGGESVS 238  
QY 253 LMSPLASGLFHRASIGSGTALFRLFTTSPNLVAKKVAHLIAGCNHNSIOI--LVNCLRA 310  
DB 239 LVLSPLANKLFHRASISBSGVALTVAVRKDMKAAAKQIAVLAGCKTTSTVFTVHCLRQ 298  
QY 311 LSGTKRWVRNRRFLQANQRDPBEIISMSFVNGSVLPDDPLVLTGQ--KVSSVPPY 368  
DB 299 KSBDELLDYLTKKFLFLDPHGDQSRSHPLPYVVDVLLPKPKEEILAEKDFTFNTVPY 358  
QY 369 LLAGNNLEFNNMLPYIKKFPPLNROAMKETTITKMLNSTRTILNTKQVPLV--VEEYLD 426  
DB 359 IVGINKEBFGLPLTMNGFPLSEKLDQKTATSLMKSYPIANIPEELTVATFTDKYL 418  
QY 427 NVNEHDKMLRNMMDIVODATFYVATLQTAYHRDAGLPVLYEFBHH--ARGIIVKP 483  
DB 419 GTDDPVKK--KDLFLDLMGDVFCVPSVTVARQHRDAGAPTYMYEFQYRPSFSDKFTKP 476  
QY 484 RTDGAHDGDEMYFLFGGPFATGLSMGKSKALSLQMKYMANFARTGNPDGNLPCW--R 541  
DB 477 KTVIGDGHDEIFSVGFPLKGDAPPEEVSLSKTVMKFMANFASGNPNBEGLPHPMPTM 536  
QY 542 YNNDEKYLQDFTTRVGMKLEKKGMAPFMSLYOSORPEK 580  
DB 537 YDQEGYLGIVNTQAARKLKGEEVAFMNDLSKEAAKK 575

RESULT 10  
US-09-150-515-2  
Sequence 2, Application US/09150515  
Patent No. 6271006  
GENERAL INFORMATION:  
APPLICANT: Hubbs, John C.  
TITLE OF INVENTION: Bzymatic Process for the Manufacture of  
TITLE OF INVENTION: Ascorbic Acid, 2-Keto-L-Gulonic Acid, and Esters of  
NUMBER OF SEQUENCES: 3  
CORRESPONDENCE ADDRESS:  
ADDRESS: Eastman Chemical Company  
STREET: P.O. Box 511  
CITY: Kingsport  
STATE: Tennessee  
COUNTRY: USA  
ZIP: 37662-5075  
COMPUTER READABLE FORM:  
MEDIUM TYPE: 3.5 inch disk  
COMPUTER: IBM Compatible  
OPERATING SYSTEM: Windows 95  
SOFTWARE: Microsoft Word  
CURRENT APPLICATION DATA:  
APPLICATION NUMBER: US/09/150,515  
FILING DATE: 09-SEP-1998  
CLASSIFICATION:  
PRIOR APPLICATION DATA:  
APPLICATION NUMBER: US 60/017,879; 08/845,295  
FILING DATE: 17-May-96; 25-April-97  
ATTORNEY/AGENT INFORMATION:  
NAME: Cheryl J. Tubach  
REGISTRATION NUMBER: 38,346  
TELEPHONE: 423-229-6189  
TELEFAX: 423-229-1239  
INFORMATION FOR SEQ ID NO: 2:  
SEQUENCE CHARACTERISTICS:  
LENGTH: 584 amino acids  
TYPE: Amino Acid

TOPOLOGY: Linear  
MOLECULE TYPE: protein  
US-09-150-515-2

Query Match 37.6%; Score 1169.5; DB 2; Length 584;

Best Local Similarity 43.0%; Pred. No. 9.5e-111;  
Matches 249; Conservative 108; Mismatches 193; Indels 29; Gaps 13;

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QY 26 WLWMSLTLCMAQNTALGMLHTKRPOVY-TKKGTLOGKMHG-----KTPIDVPLGVPS 80
DB 2 WLL--PLVLTSLASSFTWAGOPASPPVDTAQRVLTGKVSLEGLAFTOPVAVFTGVPPA 59
QY 81 RPPGLILRPAPEPPEPPKGRDATTYPGCLOESWGLASMYVST---RRRYKRLRPS 136
DB 60 KRPGLSLRARPAPQAPAPMPSFVKNNTISYPPMCCQDPVLEGMTSDLFNTPGKERLT-LEPS 118
QY 137 EDCLYINVTAPAPAPGDPOLPVWVPFGCAFIYGAASSTYEGSDLAAREK--VVLVFLQHR 194
DB 119 EDCLYINVTAPADLTGRGRLPVWVWTHGGGLVYGAPMTDGVVLAHENTVVAVALIQYR 178
QY 195 LGIFGLSTDDSHARGNMGILLDOMALRWVOENIAAFGGDPGVNLTFGOS--AGMSTISG 252
DB 179 LGIWGFSTGDEHSRGNMGHLDQVALLHWQENIANFGDPGSDVITFGESFTAGGESVSV 238
QY 253 LAMSPLASGLFHRAISQSGTALFRLFITSNPLKVAKKVAHLAAGCNINSTOI--LVNCLPA 310
DB 239 LVLSPLAKLIFRAISEGVALTVLVRKDMRAAKQIYVLAQCKTTTSNAVITPVHCLAQ 298
QY 311 LSGTKVWVSNKRRFLQNLNFORDBEIIWMSMSPVVDGVVLPDDPLVLTQG--KVSSVPY 368
DB 299 KSEDELDLTLKKKFLTLDPHGQDRSHFPLPVVVDGVLLPKMPEELIAKQDPTFTVTVY 358
QY 369 LIGVNLEPFWMLPYIMKPPRLNQAARKETITQMLSTRTLNTITEQVPLV--VBEYLD 426
DB 359 IYGINQOEFGWLLPYTWGFPPLSGKLDQKATSLMKSYPIANIPEELPVATFTTKYLG 418
QY 427 NVNEHMKMLRNBMMDIVODATFVYATLQTAHYHDAGLPVLYEPEHH---ARGIIVRP 483
DB 419 GIDDPKPK--KDLFLDMGDVGVGVSVYARQRHAGAPTYTTEQYRPSFSDFTFR 476
QY 484 RTDGDADHDEMYPLFGGPATYGLSMGKEKALSLQMKMYANFARTGNPDGNLPCWP--R 541
DB 477 KTVIGHGDBEIFSVFGRPLKGDAPBEVSLSKTVKKFMANFARSGNPNGEGLPHMPFTM 536
QY 542 YNKDEKTLQDFTTRVGMKLKEKKAFFWMSLYQSOREK 580
DB 537 YDOEGYLOIGVNTQAKRLKGEVAFWMDLSKEAKK 575

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# RESULT 11

US-10-023-515-2  
Sequence 2, Application US/10023515

Patent No. 6664091  
GENERAL INFORMATION:

APPLICANT: Curtiss, Roy A. J.  
APPLICANT: Siles-Santiago, Imaculada

TITLE OF INVENTION: 53010, A NOVEL HUMAN CARBOXYL ESTERASE  
TITLE OF INVENTION: FAMILY MEMBER AND USES THEREOF

FILE REFERENCE: 10448-122001  
CURRENT APPLICATION NUMBER: US/10/023,515

CURRENT FILING DATE: 2001-12-18  
PRIOR APPLICATION NUMBER: 60/256,369

PRIOR FILING DATE: 2000-12-18  
PRIOR APPLICATION NUMBER: 60/279,508

PRIOR FILING DATE: 2001-03-28  
NUMBER OF SEQ ID NOS: 6

SOFTWARE: FASTSEQ for Windows Version 4.0  
SEQ ID NO 2

LENGTH: 581  
TYPE: PRT

ORGANISM: Homo sapiens  
US-10-023-515-2

Query Match 36.8%; Score 1145; DB 2; Length 581;  
Best Local Similarity 42.8%; Pred. No. 3.1e-108;  
Matches 249; Conservative 91; Mismatches 186; Indels 56; Gaps 13;

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QY 11 LPSLILPTAGAGMSRWILCNSLTLCMAQNTALG-----ALHTKRPQVNTKYGTLOGK 63
DB 1 MFOGLTSSASQW-----CFPLIL-----QPLIGHRWKMTGSPASGAPQNRTRLGMIQGRQ 50
QY 64 MHV--GKTPIDVPLGVPSRPPGLILRPAPEPPEPPKGRDATTYPGCLOESWGLAS 121
DB 51 VTVLGSPPVAVNFTLVGPPAPPLGSLRTNPOPASPMONLKEATSPMLCQNSMMLLD 110
QY 122 MYVSTRERYKMLRFSEDCLYINVTAPAPAPGDPOLPVWVPFGCAFIYGAASSTYEGSDLA 181
DB 111 QHM-LKVHYPKGVSEDCLYINVTAPAPADTGSKLPLVLPFGCAFTGASASIFDGSALA 169
QY 182 AREKVVVFLQHRGLIFGFLSTDDSHARGNMGILLDOMALRWVOENIAAFGGDPGVNLTFL 241
DB 170 AVEDLVVVVVOYRLGIFGFPTTMDHARGNMAFKQVVALSWQNIIEFGGDPSSVTIF 229
QY 242 GOSAGAMISGLMWSPLASGLFHRAISQSGTALFRL-----FITSNPLKVAKKVAHLAAGC 296
DB 230 GSSAGATISVSLILSPYAKGLFHKAIMSGVALITYLEADHYKESDLOV--VAHFGCN 286
QY 297 MNSTQIILVNCILRALSGTKVWVSNKRRFLQNLNFORDBEIIWMSMSPVVDGVVLPDDPLV 356
DB 287 NASDBALLRCIRTPKSEBELTLISQTK-----STRVVDGAFFPNEPLD 331
QY 357 LITQKVVSVPYLLGVNMLEPFWMLPYIMKPPRLNQAARKETITQMLSTRTLNTITEQ 416
DB 332 LLSQCAFKALIPSEIIVVNNHECGFLP-MKEAPEILSGSNKSLALHLI--QNLHLPQY 387
QY 417 VPLVVEYLDNNEHDMKMLRBMMDIVODATFVYATLQTAHYHDAGLPVLYEPEHNA 476
DB 388 LHLVANEFFH--DKSLTEIRSLDLADVFFVVPALITAYYHDAAGPVTFEPRHRP 445
QY 477 RGI-IVKPTDGDADHDEMYPLFGGPATG-----LSMGKEKALSLQMKMYANFARTG 529
DB 446 QCFEPTKPAFVADHADVRFVFGAFLKGLVMEGATFEEKLSRKMKWATFARTG 505
QY 530 NPDGNLPCWPRYNYKDEKTLQDFTTRVGMKLKEKKAFFWMS 571
DB 506 NPDGNLSPMPAYNLTQYTLQDLNMSLQORLKEPRVDFWTS 547

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# RESULT 12

US-09-264-737-1  
Sequence 1, Application US/09264737A

Patent No. 6107549  
GENERAL INFORMATION:

APPLICANT: Feng, Paul C. C.  
APPLICANT: Ruff, Thomas G.

TITLE OF INVENTION: Engineering Plant Resistance to Pyridines via  
TITLE OF INVENTION: Expression of Esterase Enzymes

FILE REFERENCE: 38-21(10551) RLE3 Pyridine Tolerance  
CURRENT APPLICATION NUMBER: US/09/264,737A

CURRENT FILING DATE: 1999-03-09  
EARLIER APPLICATION NUMBER: 60/077,377

EARLIER FILING DATE: 1998-03-10  
NUMBER OF SEQ ID NOS: 11

SOFTWARE: PatentIn Ver. 2.0  
SEQ ID NO 1

LENGTH: 539  
TYPE: PRT

ORGANISM: Rabbit  
US-09-264-737-1

Query Match 36.4%; Score 1133; DB 2; Length 539;  
Best Local Similarity 41.3%; Pred. No. 4.6e-107;  
Matches 227; Conservative 115; Mismatches 177; Indels 30; Gaps 10;

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QY 46 HTKRPOVNTKYGTLOGKMHVGK-----TPIDVPLGVPSRPPGLILRPAPEPPEP 97
DB 46 HTKRPOVNTKYGTLOGKMHVGK-----TPIDVPLGVPSRPPGLILRPAPEPPEP 97

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Db      1 HPSAPPVV---DTVKGKVL--GKFVSLBGAQVAVFLGVPAKPLGSLRFAAPQPAAS 55
Qy      98 WKGRDATTTPPGCLQF--SWGQLASMTVSTREKRYKLRBSBDCLYANTAPAPAPQDPQ 155
      56 WSHVKNKTSYTPMCSASVAGSHMLSELPYRKENIP-LKSESDCLYINITYTPADLTGRGR 114
Qy      156 LPVWVWFFPGAFYVGAASVYEGSDLAAREKVLVFLQHRIGIIPGFLSTDSHAGNGML 215
      115 LPVWVWVHGGGLWAGASTDGLALSAHENVVVTTQIRLIGGFGRNIDE-----L 166
Qy      216 DQMAALWVOENIAPFGDPPGNVTLFGQSAGAMSISGLMSPLASGLFHRASISQGTALP 275
      167 FLVAVNRWVDNIANFGODPGSVTIFGSSAGQGSVSTILSLPKNLFHRASISSGVAL 226
Qy      276 RLFTTSPPLAKKVAHLAGCNHNSQTOLVNCILBALSGTKMKRVSNGKRFQLNFGODPE 335
      227 SSLERKNTKSLAEKIALBAGCKTTSVAVWVCLKQKEBELMVTLLQKFKFALDLVDPK 286
Qy      336 EIIWMSPVVDGVVTPDDPLVTLTQGVKSVSVYLLGVNNLEFNNLLP-YIMKPPILNRQAM 394
      287 ENTAFLTTVIDGVLLPAPAPAEIYEKKYKMLPYWGINQSEFMTIPQMLGYPLSGKL 346
Qy      395 RKETITMLNSTRLNITKEQVPLVVEYLDVNEHDMKMLRNRMDIVODATEFYATL 454
      347 DQKATATELWKSYPITVAVSKELTFVATEKYLGGTDDPVKK--KOLFIDMLADLLFGVPSV 404
Qy      455 QTAHYRDAGLPVLYEFENH-ANGTIYKPTDQADHDEMYFLFGCPFATGSLMGKEKA 513
      405 NVASHHDDAGAPTYMYERYRPSFSDMRPKTVIGDGEDEFSTYGAAPFLKEGATEBEIK 464
Qy      514 LSLQMKYMANFARTGNPDNGLPCWPRYNKDEKYLQDLFTTRVGMKLEKQKQAFWMSLY 573
      465 LSKVMTKMANFARNGNPNBGLPQWPAIYDKGYLQIGATTQAQKLKQKVAFTMLW 524
Qy      574 --OSORPEK 580
      525 AKKAAAPRE 533
Db

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RESULT 13

US-09-595-682B-28

; Sequence 28, Application US/09595682B

; Patent No. 6800483

; GENERAL INFORMATION:

; APPLICANT: Danks, Mary K.

; APPLICANT: Houghton, Peter J.

; TITLE OF INVENTION: Compositions and Methods for Sensitizing and Inhibiting Growth of

; TITLE OF INVENTION: Tumor Cells

; FILE REFERENCE: 53-0005

; CURRENT APPLICATION NUMBER: US/09/595,682B

; CURRENT FILING DATE: 2000-01-16

; PRIOR APPLICATION NUMBER: 60/075,258

; PRIOR FILING DATE: 1998-02-19

; PRIOR APPLICATION NUMBER: PCT/US99/03171

; PRIOR FILING DATE: 1999-02-12

; NUMBER OF SEQ ID NOS: 30

; SOFTWARE: PatentIn Ver. 2.0

; SEQ ID NO 28

; LENGTH: 559

; TYPE: PRT

; ORGANISM: Homo sapiens

US-09-595-682B-28

Query Match 34.8%; Score 1083; DB 2; Length 559;

Best Local Similarity 40.8%; Pred. No. 6.7e-102;

Matches 232; Conservative 94; Mismatches 204; Indels 38; Gaps 10;

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Qy      27 ILCSLTLCLMAQATGALHTKRPQVVTXKGTLOGKQMHV--GKTPIOVFLGVFSPAPPL 84
      13 VACGLLTLVLRGQ----GQDSASPIRTHTTQGVLSLVHVGANAGVQTFGLGIPAPPL 68
Qy      85 GILRFAPRPPRPMKGRDATTTPPGCLQBSWQLASMYSTRERYKMLRSESDCLYINV 144
      85 GILRFAPRPPRPMKGRDATTTPPGCLQBSWQLASMYSTRERYKMLRSESDCLYINV 144

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Db      69 GPLRFAPRPPRPMKGRDATTTPPAKCLQDLTAVESFLSQFMMTFPSDSMSBDCLYLSI 128
Qy      145 YAPARAGDQDLPVWVWFPQGAFLVGAASSYEGSDLAAREKVLVFLQHRIGIFGLSTD 204
      129 YTPAHSHGNSNLPVWVWVHGGALVFGMASTYDGSMLAALENVVVVLIQYRLGVLFSTG 188
Qy      205 DSHARGWGLLDQMAALRWQENIAPFGDPPGNVTLFGQSAGAMSISGLMSPLASGLFH 264
      189 DKHATGNGVGLDDVVALRWQONIAHFGGNPDRTYIFGSSAGTSVSLVSPISQGLFH 248
Qy      265 RAISQGTALFRLFTSNPLKAKKVAHLAGCNHNSQTOLVNCILBALSGTKMKRVSNGKRF 324
      249 GAIMSEGVALLPGLIASASAVISTVYANLACQVDSBALVGLCKRGSKKEIILAINPK 308
Qy      325 FLQNFQDDEEIIWMSNPVVDGVVTPDDPLVTLTQGVKSVSVYLLGVNNLEFNNLLPYI 384
      309 MI-----PGVVDGVFLPRHQEILLASADPQVPSPVIGVNNNEFGMLIPKV 353
Qy      385 MKEPILNRQAMRKETITMLNSTRLNITKEQVPLVVEYL-DVNEHDMKMLRNRMDI 443
      354 MRYDTQKENDRBSQAALQKMLTLMPTFGDLREBYIGDN---GDPQTLOAQPOEM 410
Qy      444 VODATEFYATLQTAHYRDAGLPVLYEFENHARGI-IVKPTDQADHDEMYFL-----F 498
      411 MADSMFVPLQVANH-QCSRAPVTFYEFQHSMLKNIRPPHMKADHGBELPFRSRFF 469
Qy      499 GGPATGSLMGKEKALSLQMKYMANFARTGNPDNGLPCWPRYNKDEKYLQDLFTTRVG 558
      470 GGVNYIKFTE--EEBQLSRKKMYANFARNGNPNBGLPQWPAIYDKGYLQIGATTQAQKLKQKVAFTMLW 527
Qy      559 MKLKEKQMAW-----MSLYQSORPEKQ 581
      528 RALKAAHRLQFKKXALPQKIQLEBEPER 555
Db

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RESULT 14

US-09-949-016-6426

; Sequence 6426, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMOBISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 6426

; LENGTH: 559

; TYPE: PRT

; ORGANISM: Human

US-09-949-016-6426

Query Match 34.8%; Score 1083; DB 2; Length 559;

Best Local Similarity 40.8%; Pred. No. 6.7e-102;

Matches 232; Conservative 94; Mismatches 204; Indels 38; Gaps 10;

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Qy      27 ILCSLTLCLMAQATGALHTKRPQVVTXKGTLOGKQMHV--GKTPIOVFLGVFSPAPPL 84
      13 VACGLLTLVLRGQ----GQDSASPIRTHTTQGVLSLVHVGANAGVQTFGLGIPAPPL 68
Qy      85 GILRFAPRPPRPMKGRDATTTPPGCLQBSWQLASMYSTRERYKMLRSESDCLYINV 144
      69 GPLRFAPRPPRPMKGRDATTTPPAKCLQDLTAVESFLSQFMMTFPSDSMSBDCLYLSI 128

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